

1 tgttccccctt ttctcttccc aacttttctcc ggcgggaatc cccctgcaaa gagacgatct
61 tgacaccatt gtttttaggca taatagaagt tctacaaaca acgcccgaag gacacacagg
121 caggcaccca ctaccatggg gaaaacagtc gttgtggcca gtaggatgtt ctggctaattg
181 tttttcgtgc cgcttcttct tgcgactctgc ccagcgagc ccgctacgc cttggcacccc
241 ggatcgagcc gagttgagct gtttaagcgt aagaattcga cggcgccgtt tgaagacaag
301 gccgggcaaag tcaccgagcg ggttggtccac tcgttccgcc tccccgccct tgttaattgtg
361 gacggggtga tggttgccat cgcggagcgt cgctacgaca catccaatga caactccctc
421 attgatacgg tggcgaagta cagcgtggac gatggggaga cgtgggagac ccaaattgcc
481 atcaagaaca gccgtgtatc gtctgttctt cgtgtggtgg atcccacgt gattgtgaag
541 ggcaacaagc ttacgtcct ggttggaagc tactatagtt cgagaagcta ctggtcgtcg
601 catggtgatg cgagagactg ggatatcttg cttgccgttg gtgaggtcac gaagtccact
661 gcgggcggca agataactgc gagtatcaaa tgggggagcc ccgtgtcact gaagaagtctt
721 ttccggcag aatggaagg catgcacaca aatcaatttc ttggcggcgc ggtgtgtgcc
781 attgtagcgt ccaacgggaa tcttgtgtac cctgtgcagg ttacgaacaa aaagaagcaa
841 gtttttctca agatcttcta ctcggaagat gatggcaaga cgtggaagt ttgggaagggt
901 aggagcgatt ttggctgctc tgaacctgtg gcccttgagt gggaggggaa gctcatcata
961 aacacccgag ttgactggaa acgccgtctg gtgtacgagt ccagtgcacat ggagaaaccg
1021 tgggtggagg ctgtcggaa cgtctcgcgt gtgtggggcc cctcaccaa atcgaccag
1081 cccggcagtc agagcagctt cactgccgtg accatcgaag gaatgcgtgt gatgctcttc
1141 acacacccgc tgaattttaa ggaagggtgg ctgcgcgacc gactgaacct ctggctgacg
1201 gataaccagc gcatttataa cgttgggcaa gtatccattg gtgatgaaaa ttccgcctac
1261 agctccgtcc tgtacaagga tgataagctg tactgtttgc atgagatcaa caggacgag
1321 gtgtacagcc ttgtttttgc acgcctggtt ggcgagctac ggatcattaa atcagtgtg
1381 cggtcctgga agaattggga cagccacctg tccagcattt gcacctgc tgatccagcc
1441 gcttcgtcgt cagagagtgg ttgtggtccc gctgtacca cggttggtct tgttggcttt
1501 ttgtccggca acgcctccca aaacgtatgg gaggatgcgt accgctgcgt caacgcaagc
1561 acggcaaatg cggagaggggt tcggaacggt ttgaagtgtg cgggggttgg cggaggagcg
1621 ctttggccgg tgagccagca ggggcagaat cagcgggtatc gttttgcaaa ccacgcgttc
1681 acgctggtgg cgtcgggtgac gattcacgag gctccgaggg ccgcgagtc cttgctgggt
1741 gcgagcctgg actcttcttg cggcaaaaaa ctctggggc tctcgtacga cgagaagcac

FIGURE 1A

1801 cagtggcagc caatatacgg atcaacgccg gtgacgccga cgggacgtg ggagacgggt
1861 aaaagggtacc acttggttct tacgatggcg aataaaattg gctccgtgta cattgatgga
1921 gaacttctgg aggggttcagg acagaccgtt gtgccagacg ggaggacgcc tgacatctcc
1981 cacttctacg ttggcgggta taaaaggagt gatatgccaa ccataagcca cgtgacggtg
2041 aataatgttc ttctttacaa ccgacagctg aataccgagg agatcaggac cttgttcttg
2101 agccaggacc ttattggcac ggaagcacac atg

FIGURE 1B

1	MGKTVVVASR	MFWLMFFVPL	LLAICPSEPA	YALAPGSSRV	ELFKRKNSTV	PFEDKAGKVT
61	ERVVHSFRLP	ALVNVDGVMV	AIADARYDTS	NDNSLIDTVA	KYSVDDGETW	ETQIAIKNSR
121	VSSVSRVVDP	TVIVKGNKLY	VLVGSYYSSR	SYWSSHGDAR	DWDILLAVGE	VTKSTAGGKI
181	TASIKWGSPV	SLKKFFPAEM	EGMHTNQFLG	GAGVAIVASN	GNLVYPVQVT	NKKKQVFSKI
241	FYSEDDGKTW	KFGKGRSDFG	CSEPVALEWE	GKLIINTRVD	WKRRLVYESS	DMEKPVVEAV
301	GTVSRVWGPS	PKSNQPGSQS	SFTAVTIEGM	RVMLFTHPLN	FKGRWLRDRL	NLWLTDNQRI
361	YNVGQVSI	ENSAYSSVLY	KDDKLYCLHE	INTDEVYSLV	FARLVGELRI	IKSVLRSWKN
421	WDSHLSSICT	PADPAASSSE	SGCGPAVTTV	GLVGFLSGNA	SONVWEDAYR	CVNASTANAE
481	RVRNGLKFAG	VGGGALWPVS	QQGQNQRYRF	ANHAFTLVAS	VTIHEAPRAA	SPLLGLASLDS
541	SGGKKLLGLS	YDEKHQWQPI	YGSTPVTPTG	SWETGKRYHL	VLTMAKIGS	VYIDGELLE
601	SGQTVVPDGR	TPDISHFYVG	GYKRSDMPTI	SHVTVNNVLL	YNRQLNTEEI	RTLFLSQDLI
661	GTEAHM					

Figure 1C



FIGURE 2B



FIGURE 2D

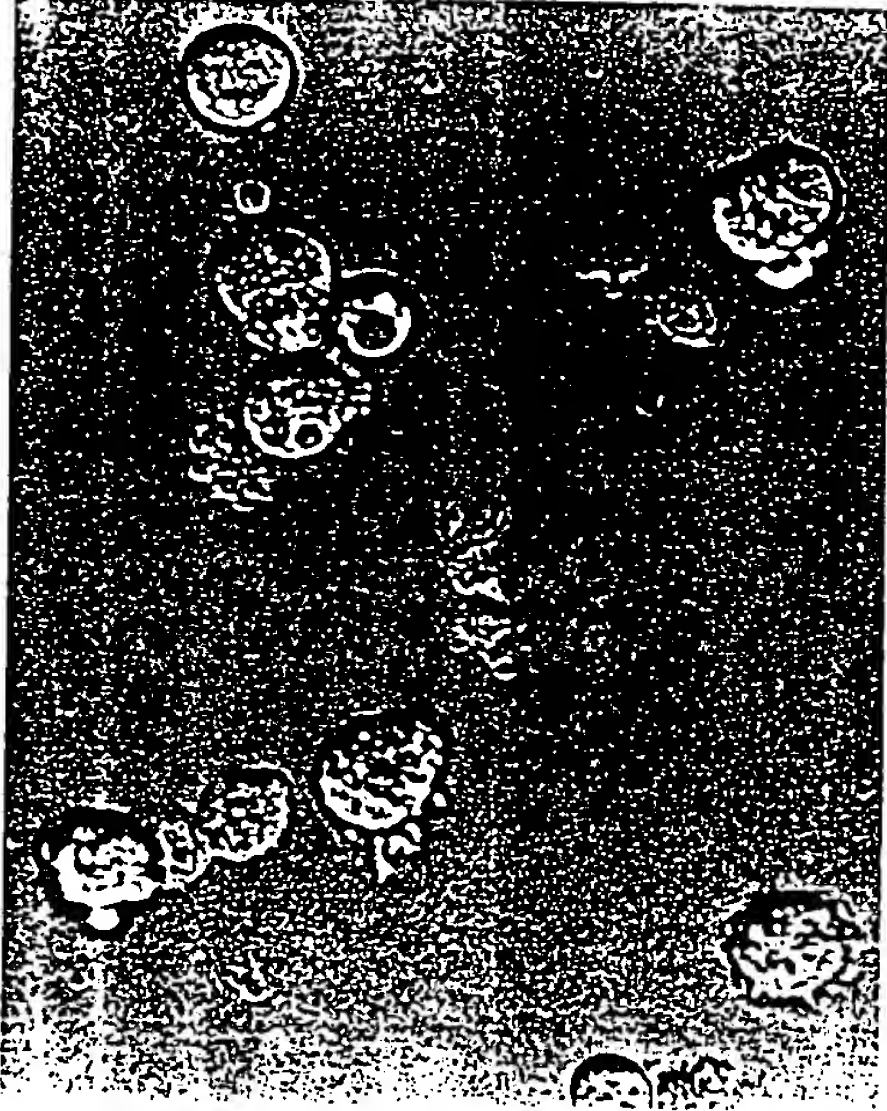


FIGURE 2A.

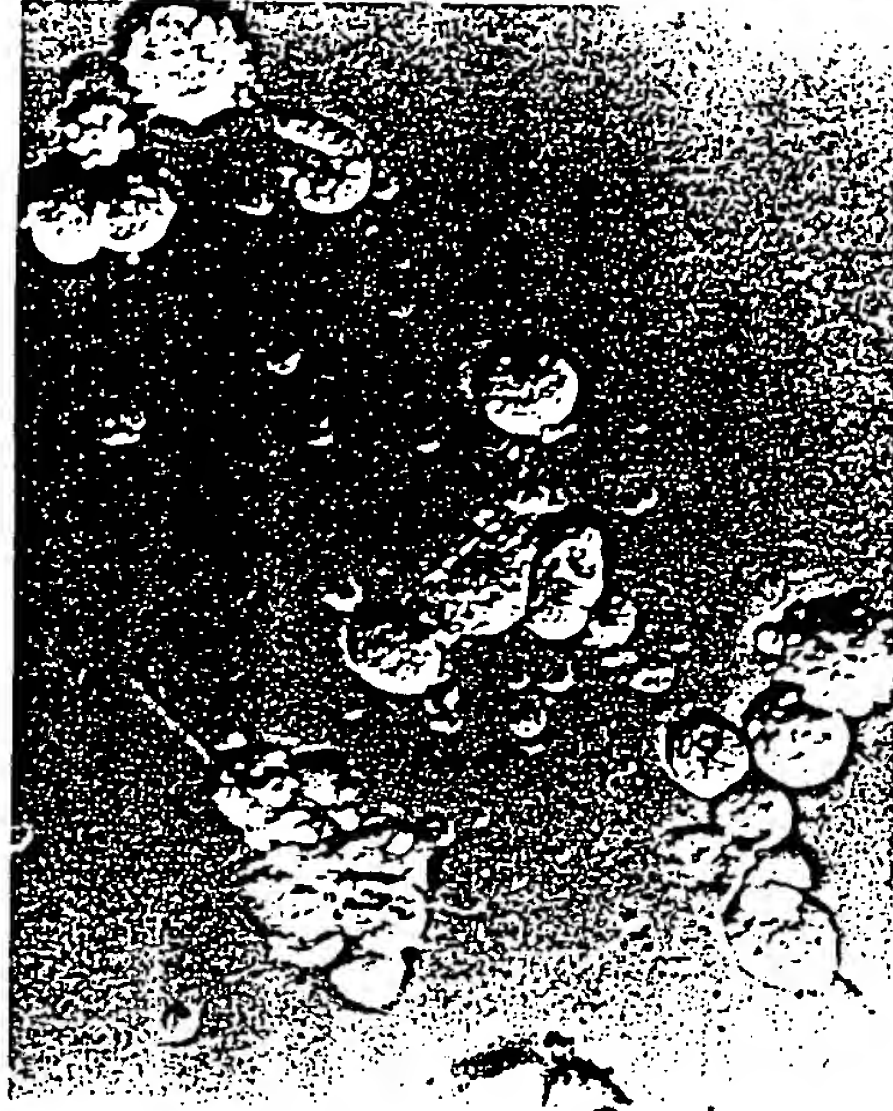


FIGURE 2C

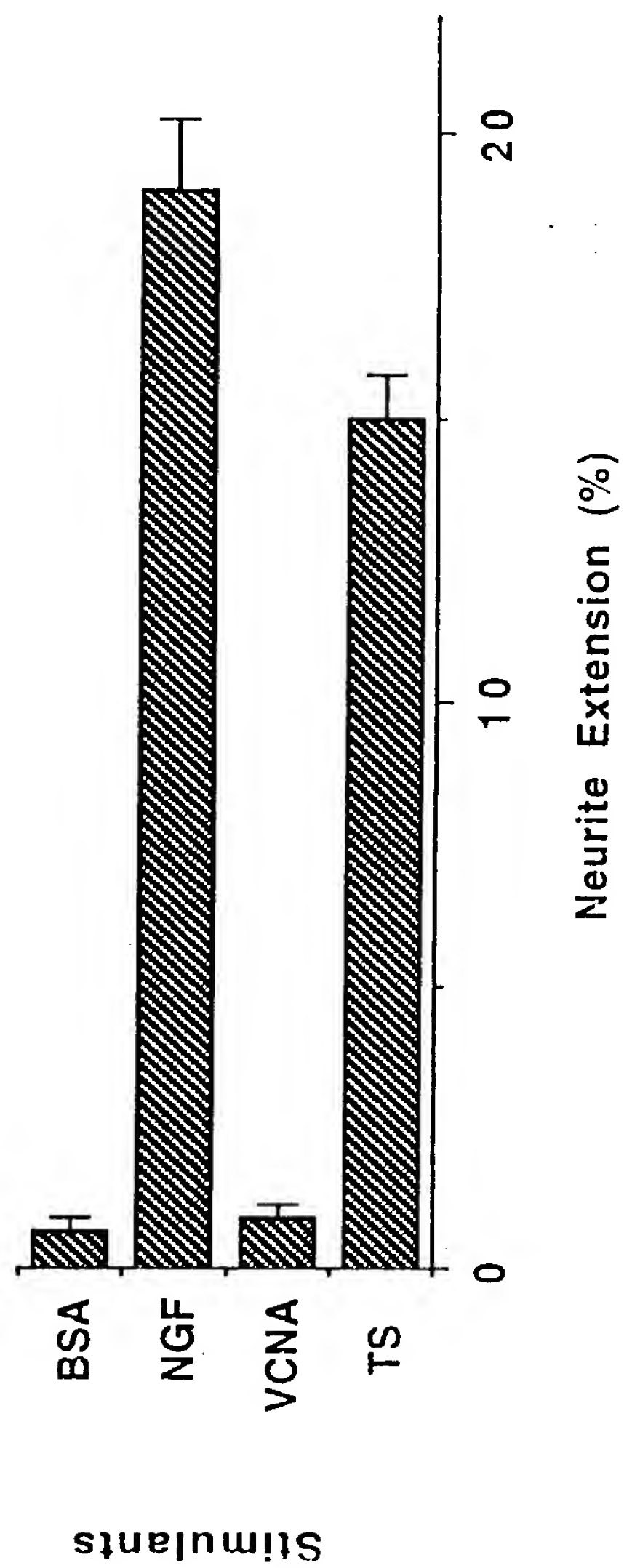


FIGURE 2E

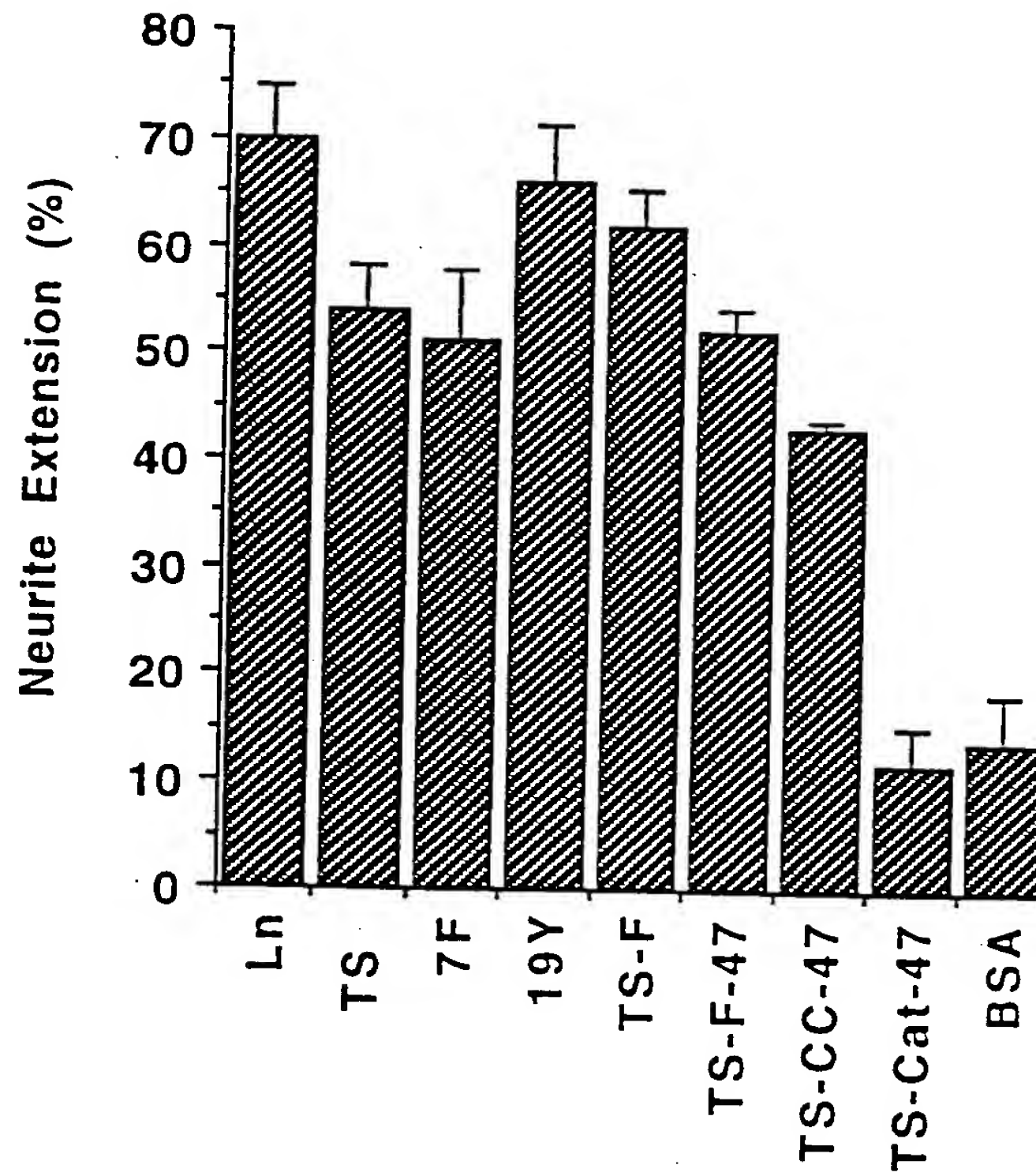


FIGURE 3A

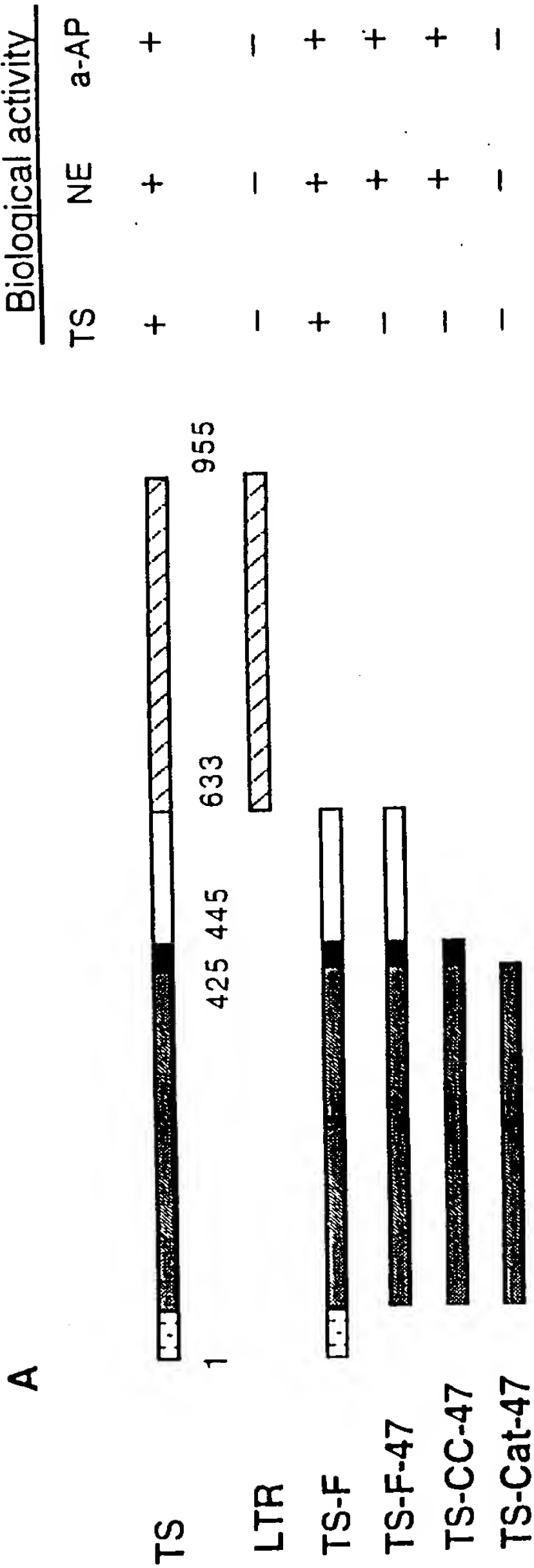


FIGURE 3B

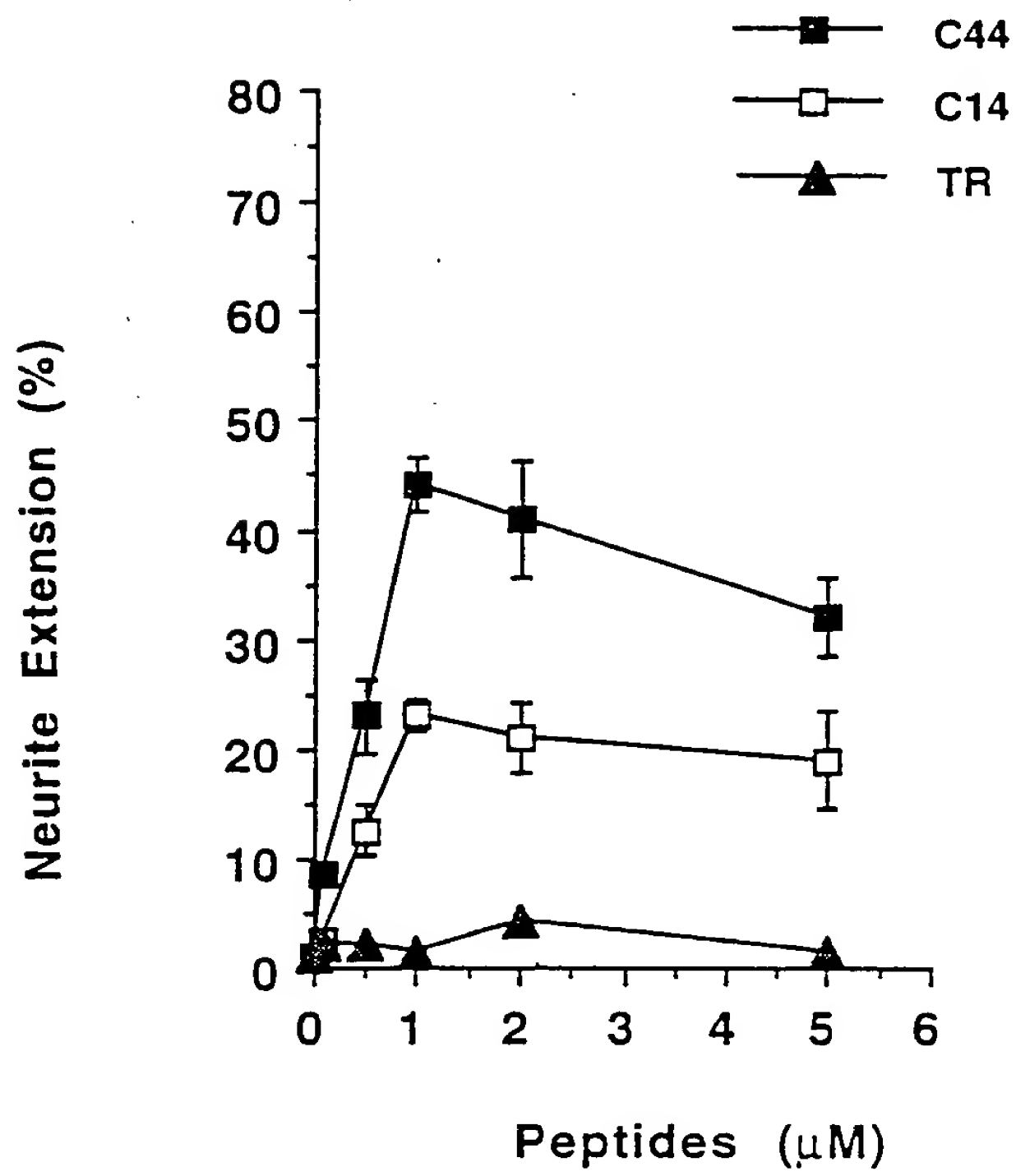
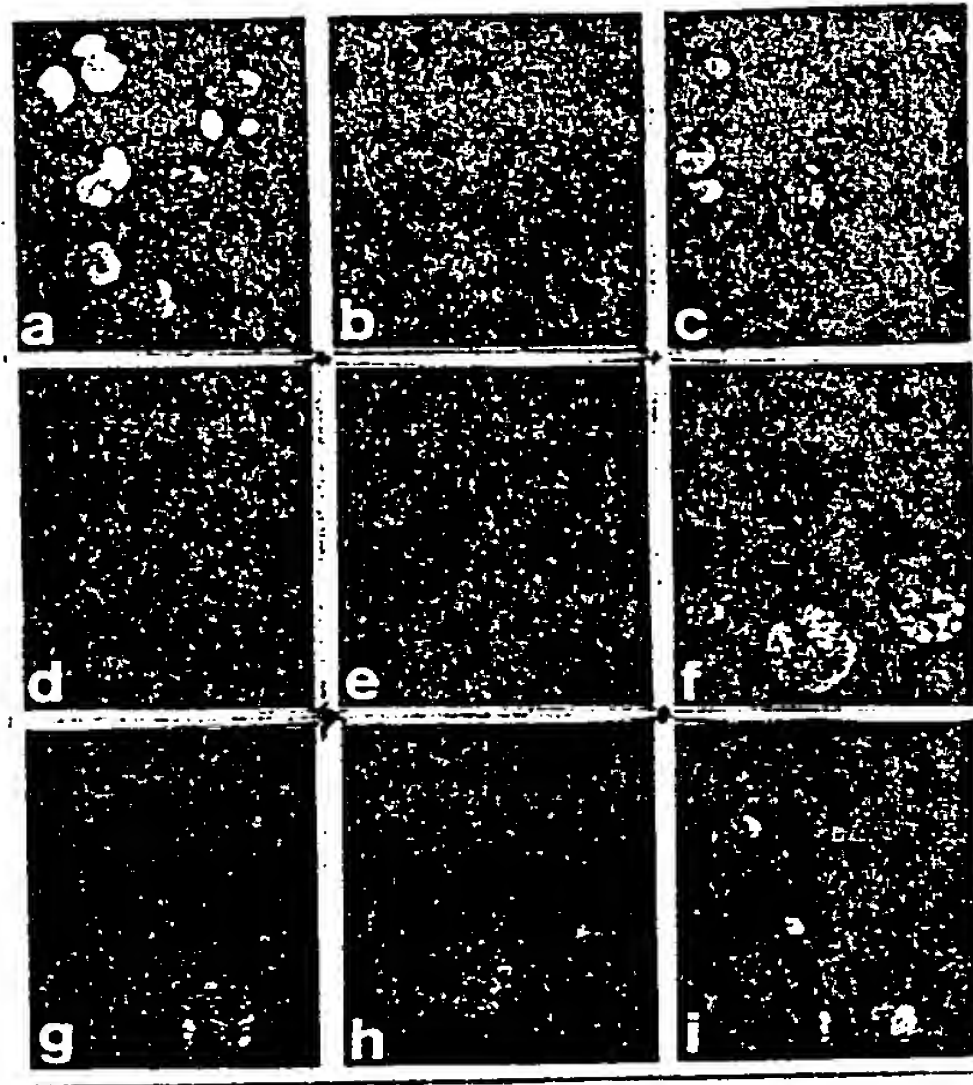
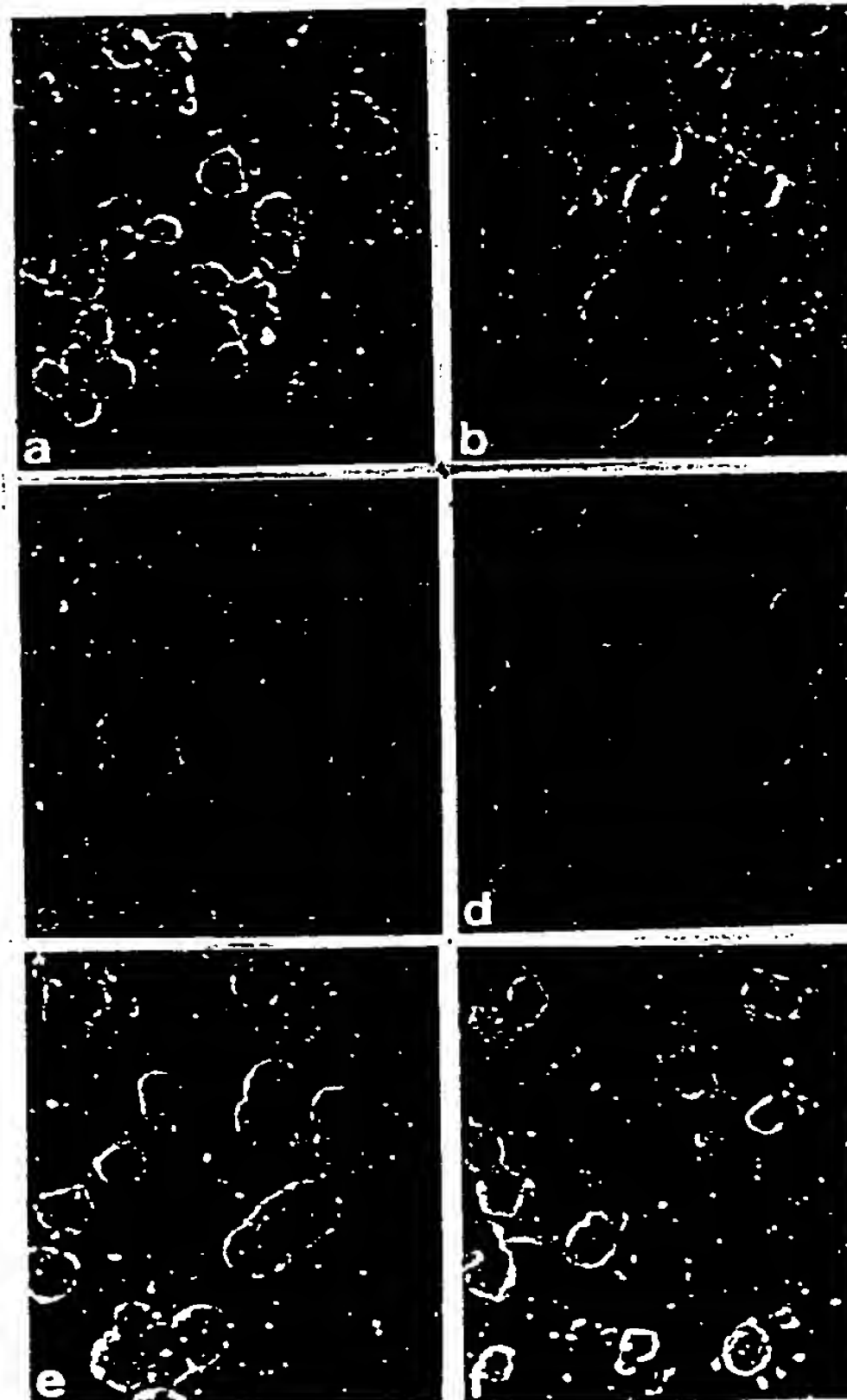


FIGURE 3C



A



B

FIGURES 4A - 4B

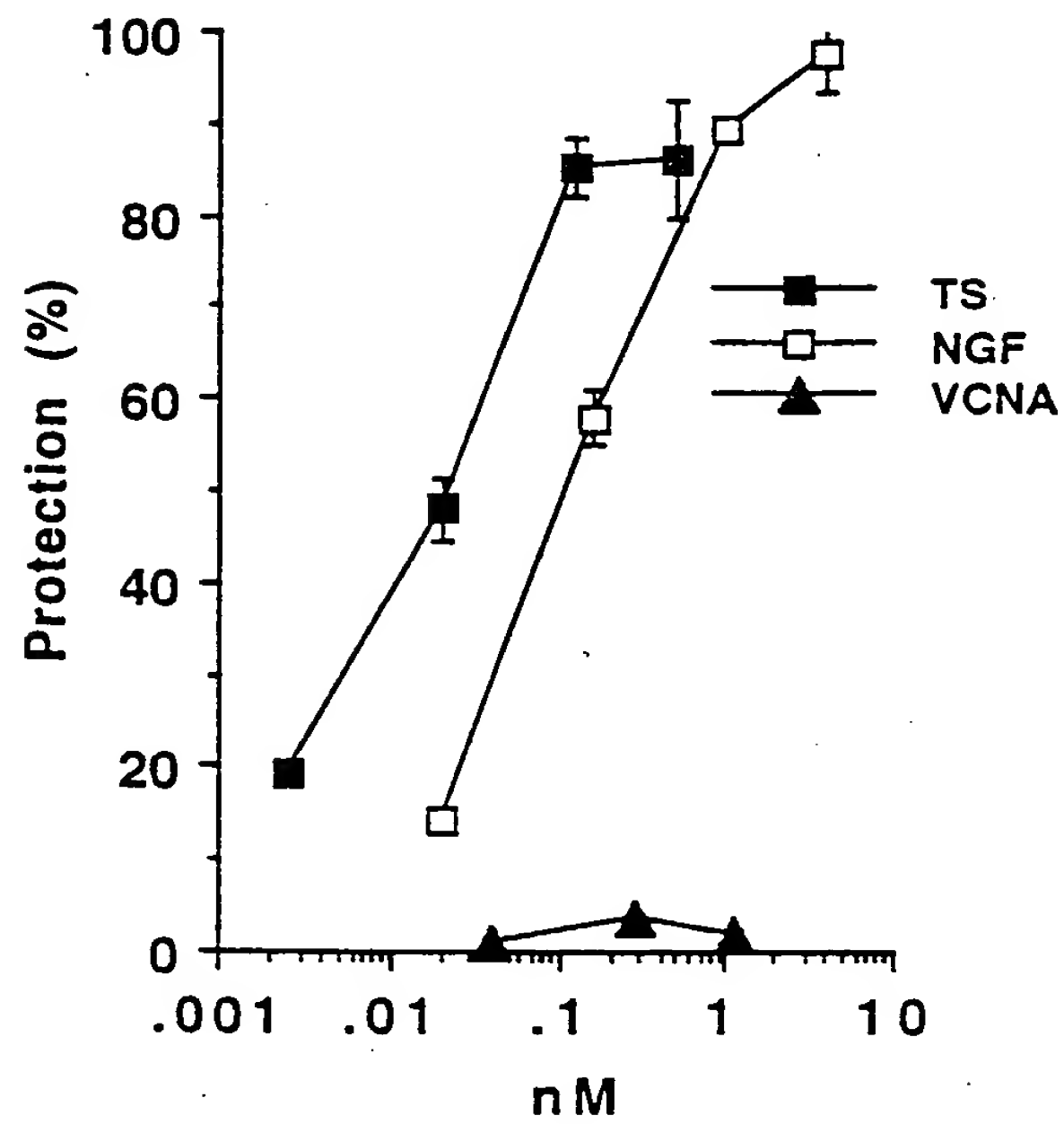


FIGURE 5A

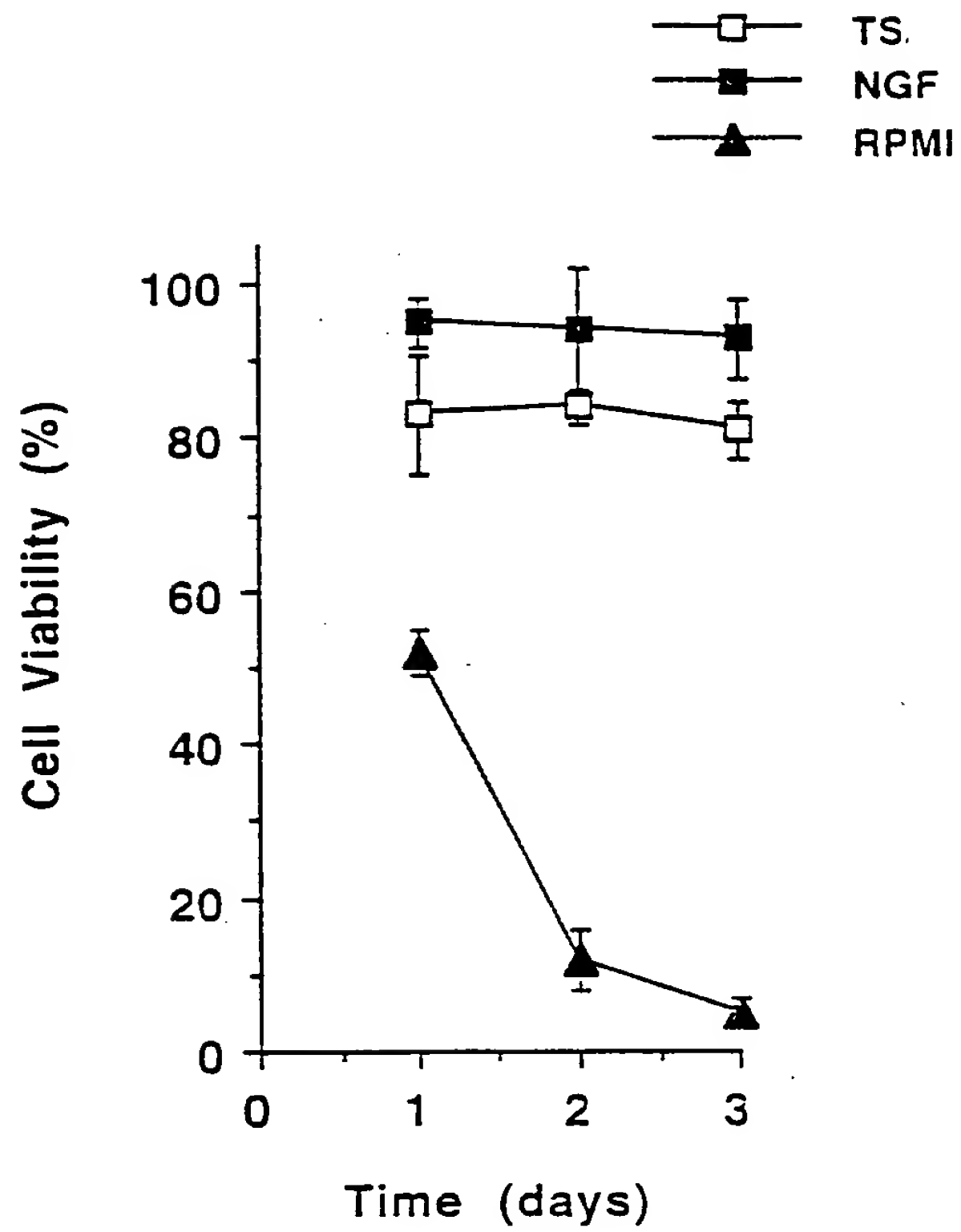


FIGURE 5B

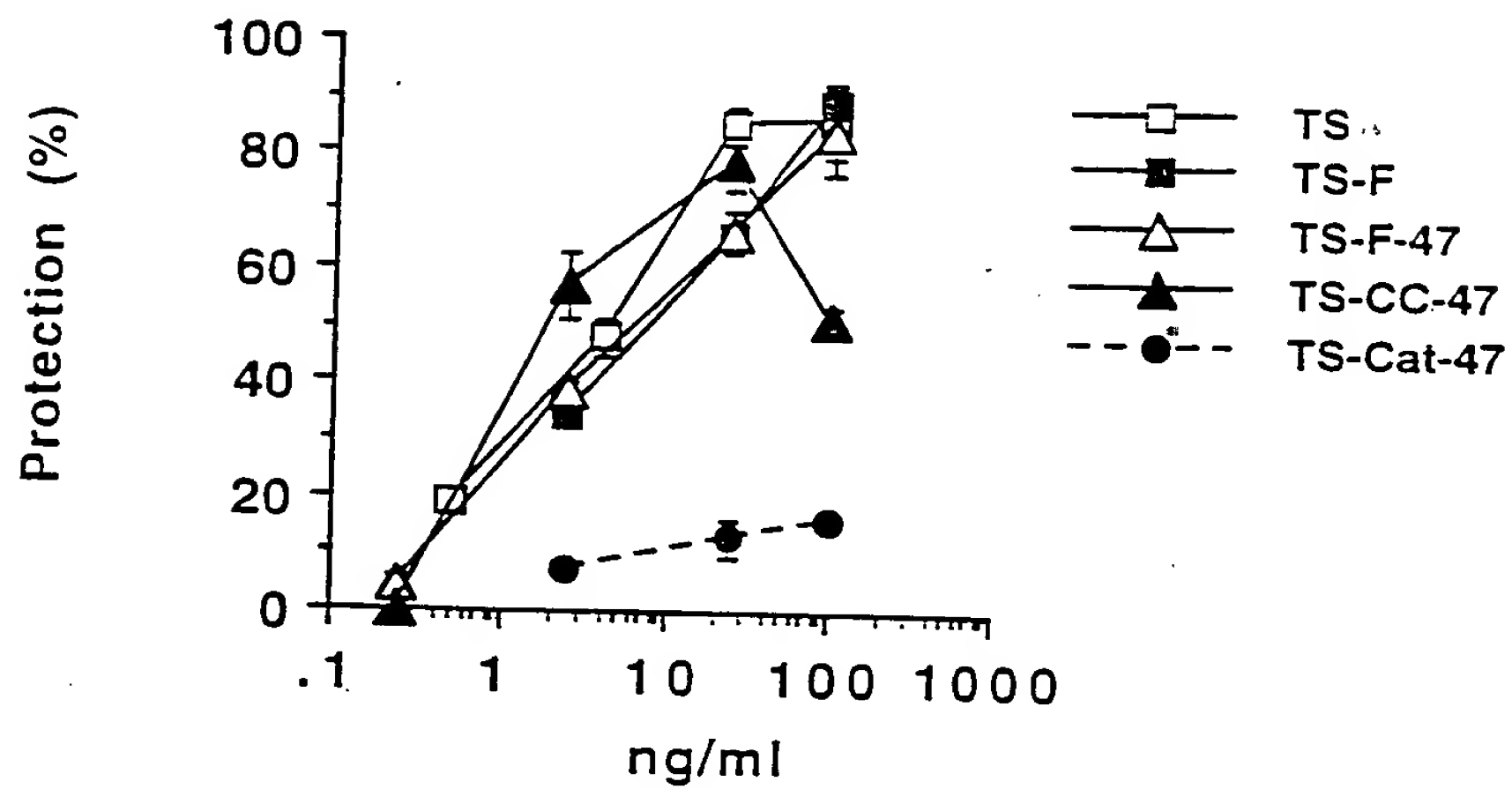


FIGURE 6A

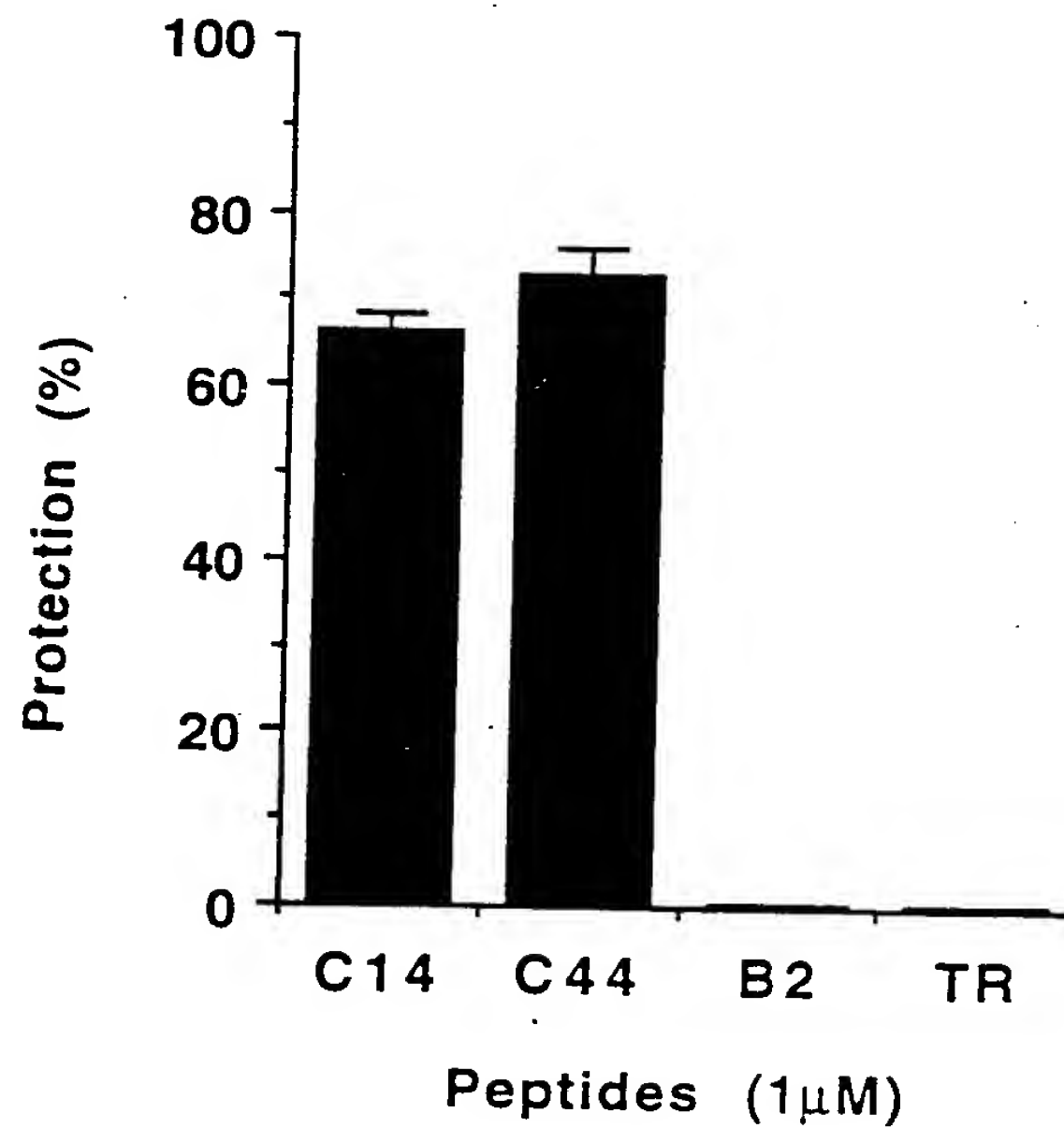


FIGURE 6B

base pairs

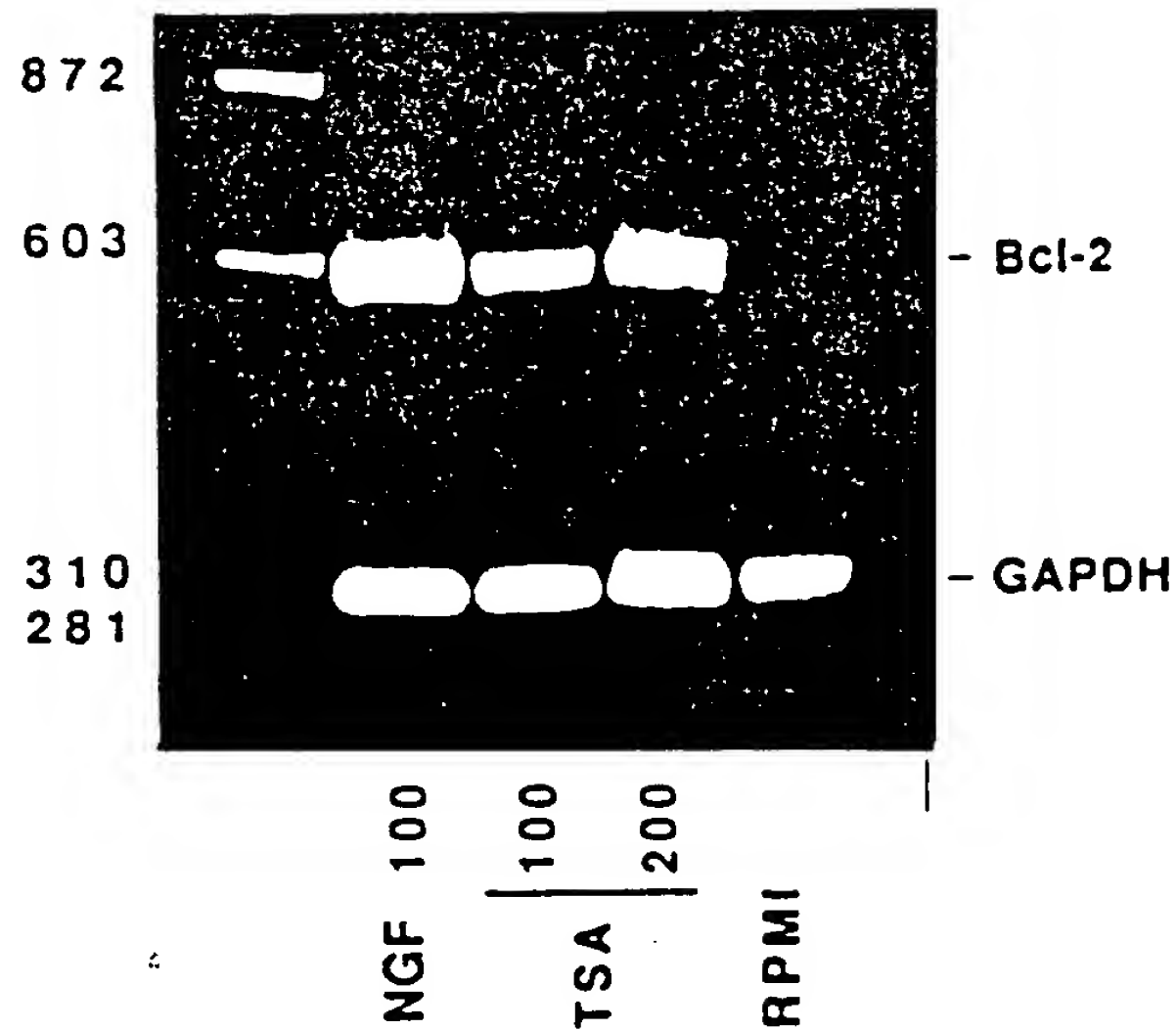


FIGURE 7

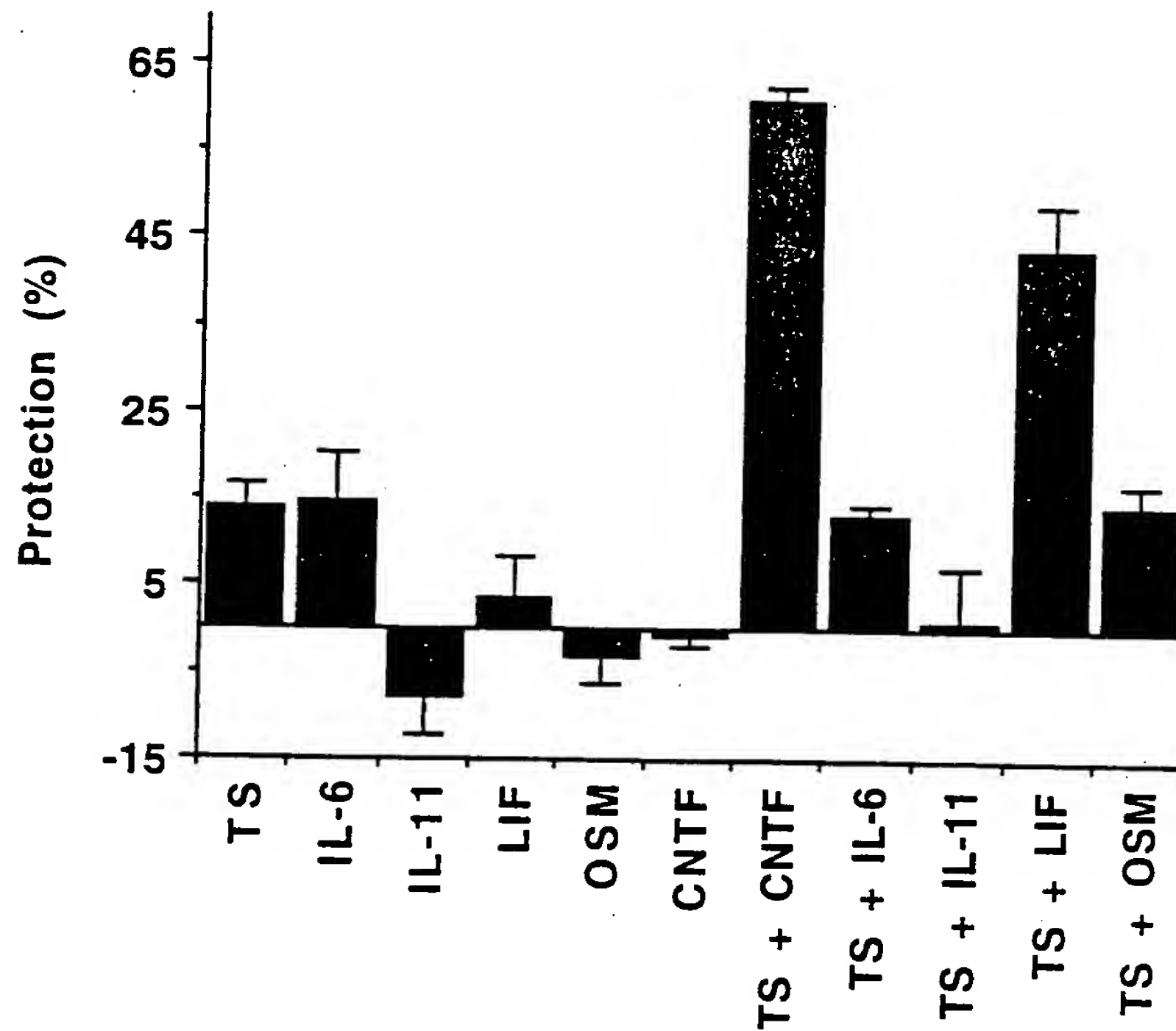


FIGURE 8A

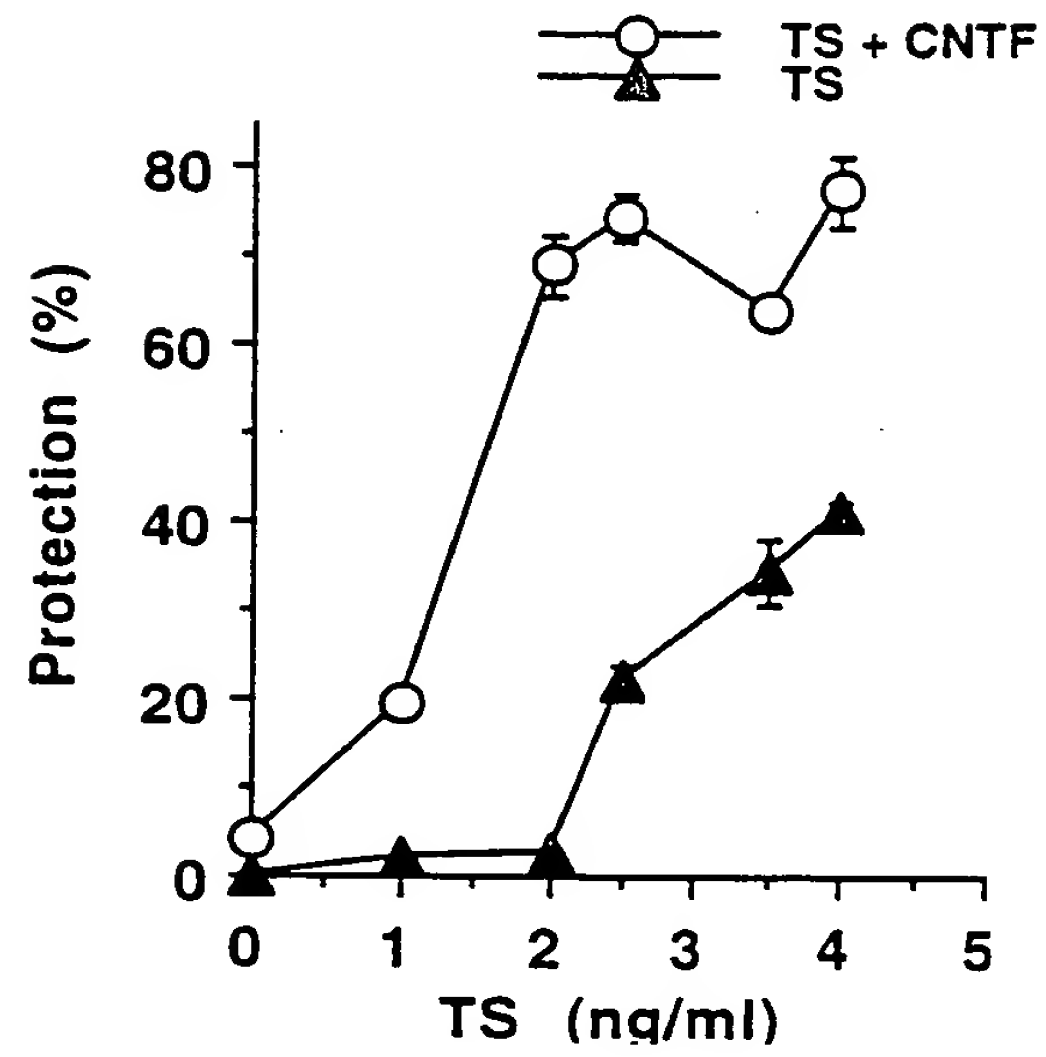


FIGURE 8B

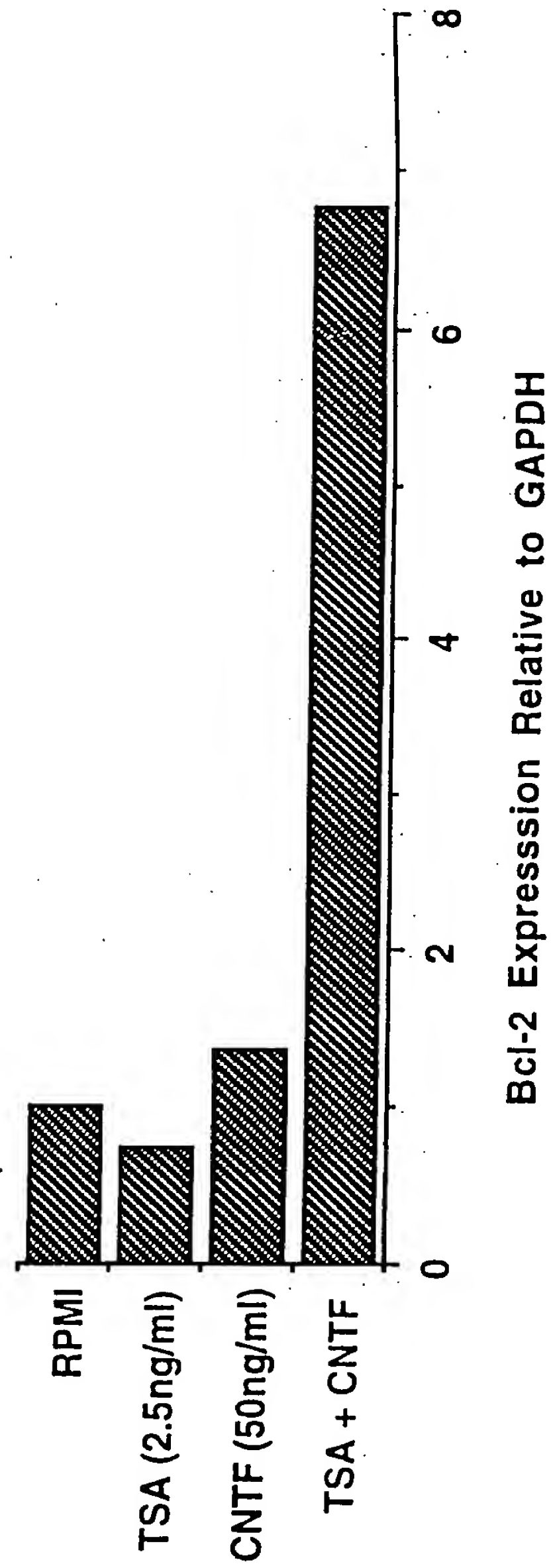


FIGURE 8C

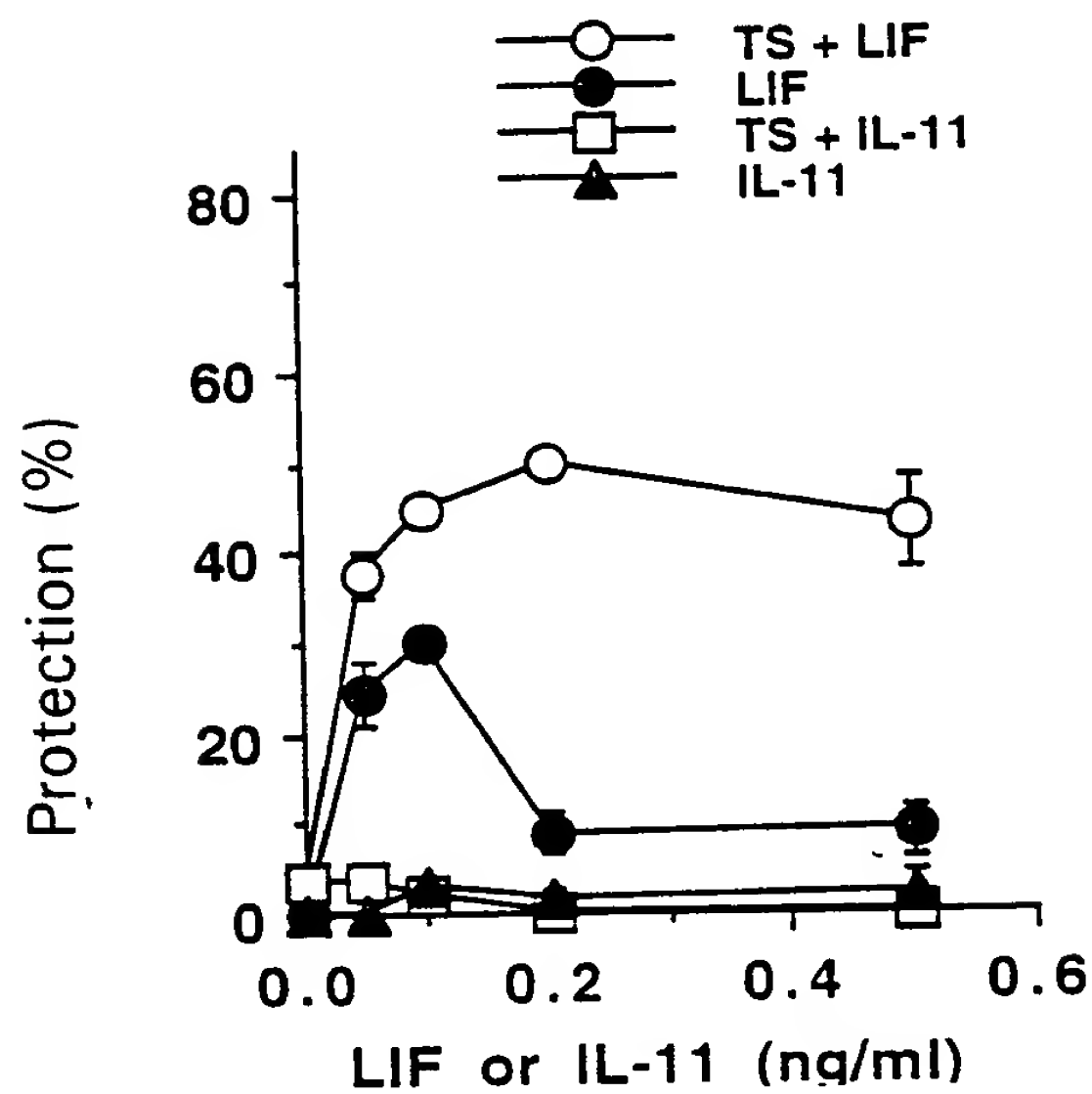


FIGURE 8D

**TS protects human Schwann cells from
serum withdrawal-induced apoptosis**

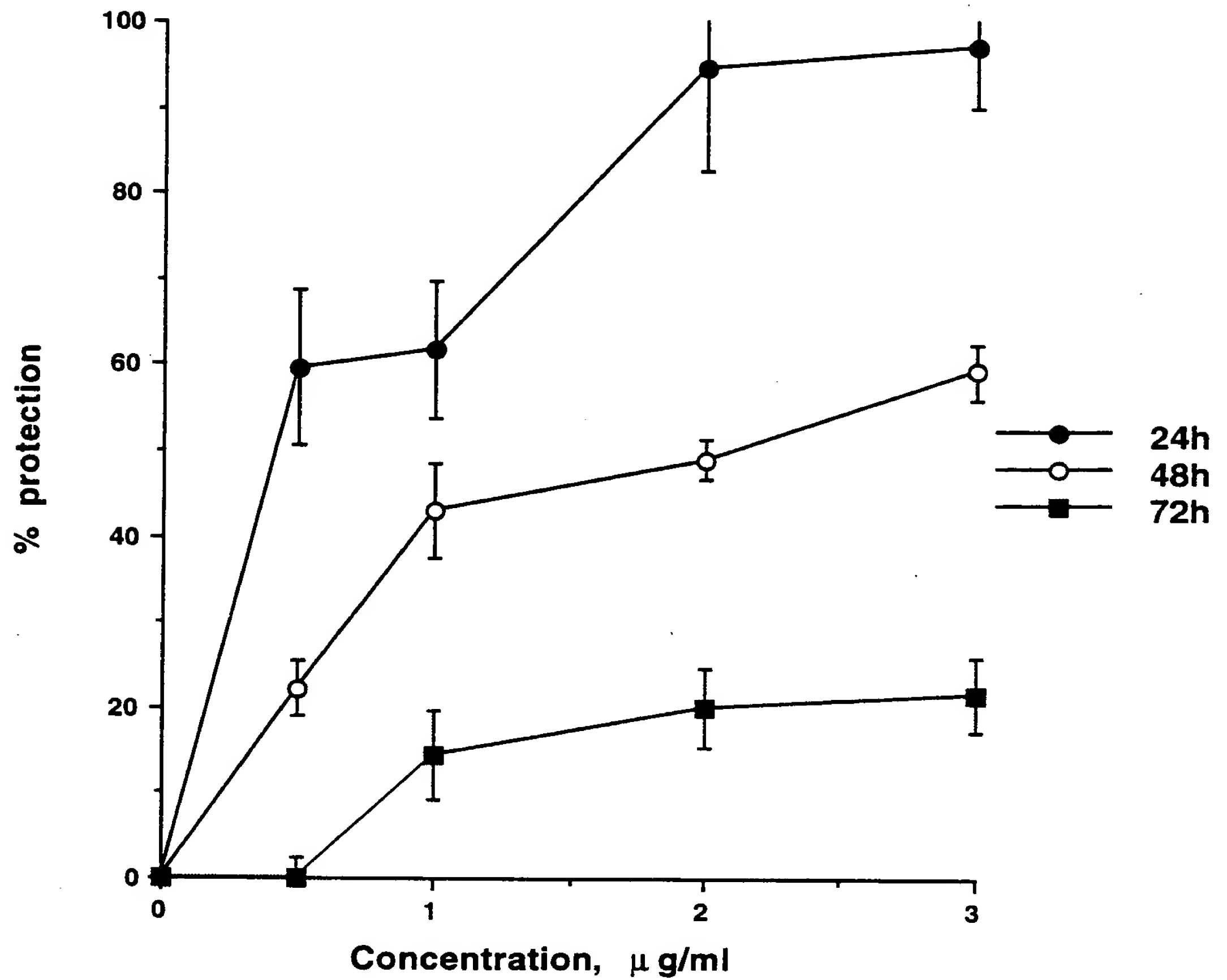
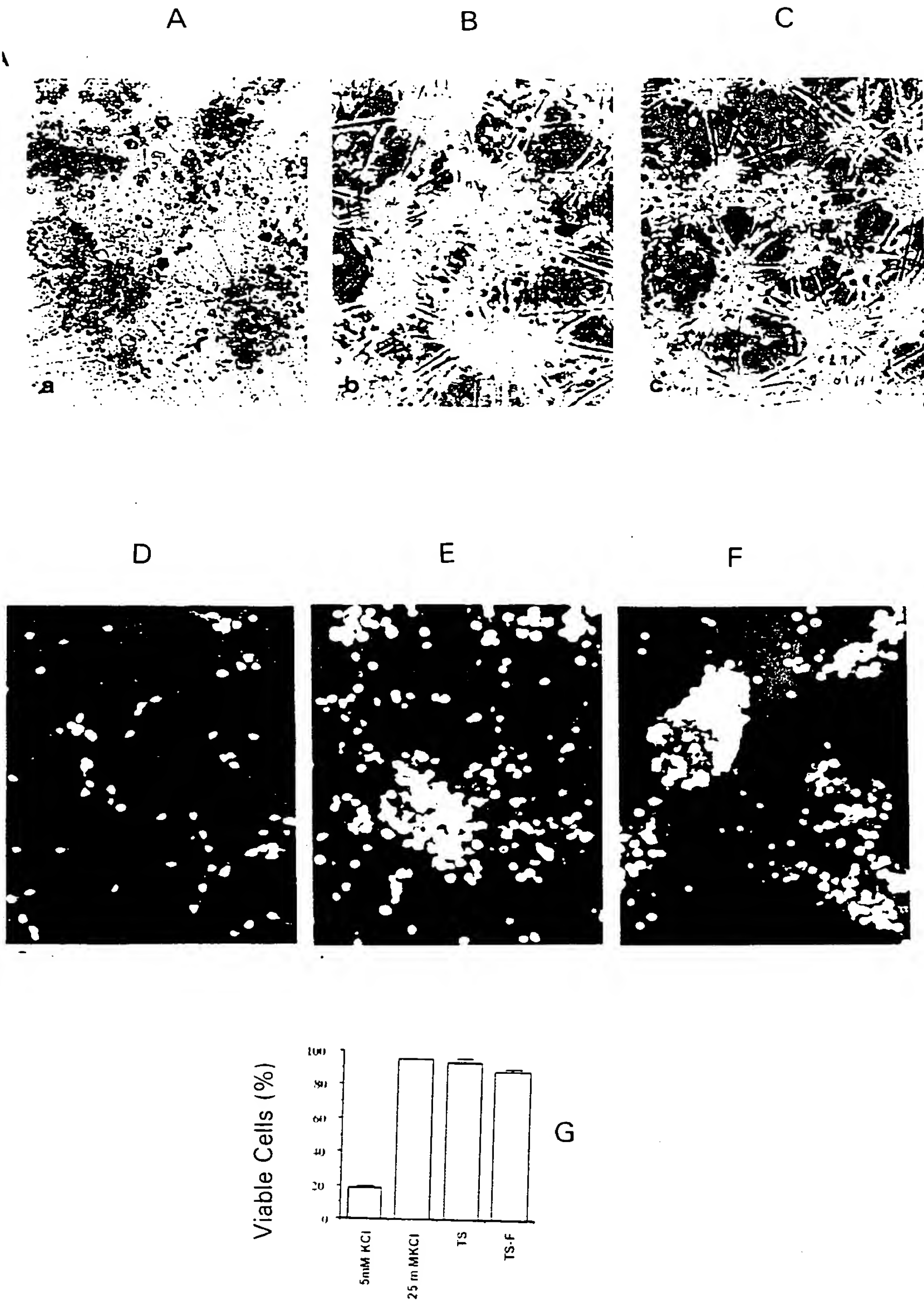
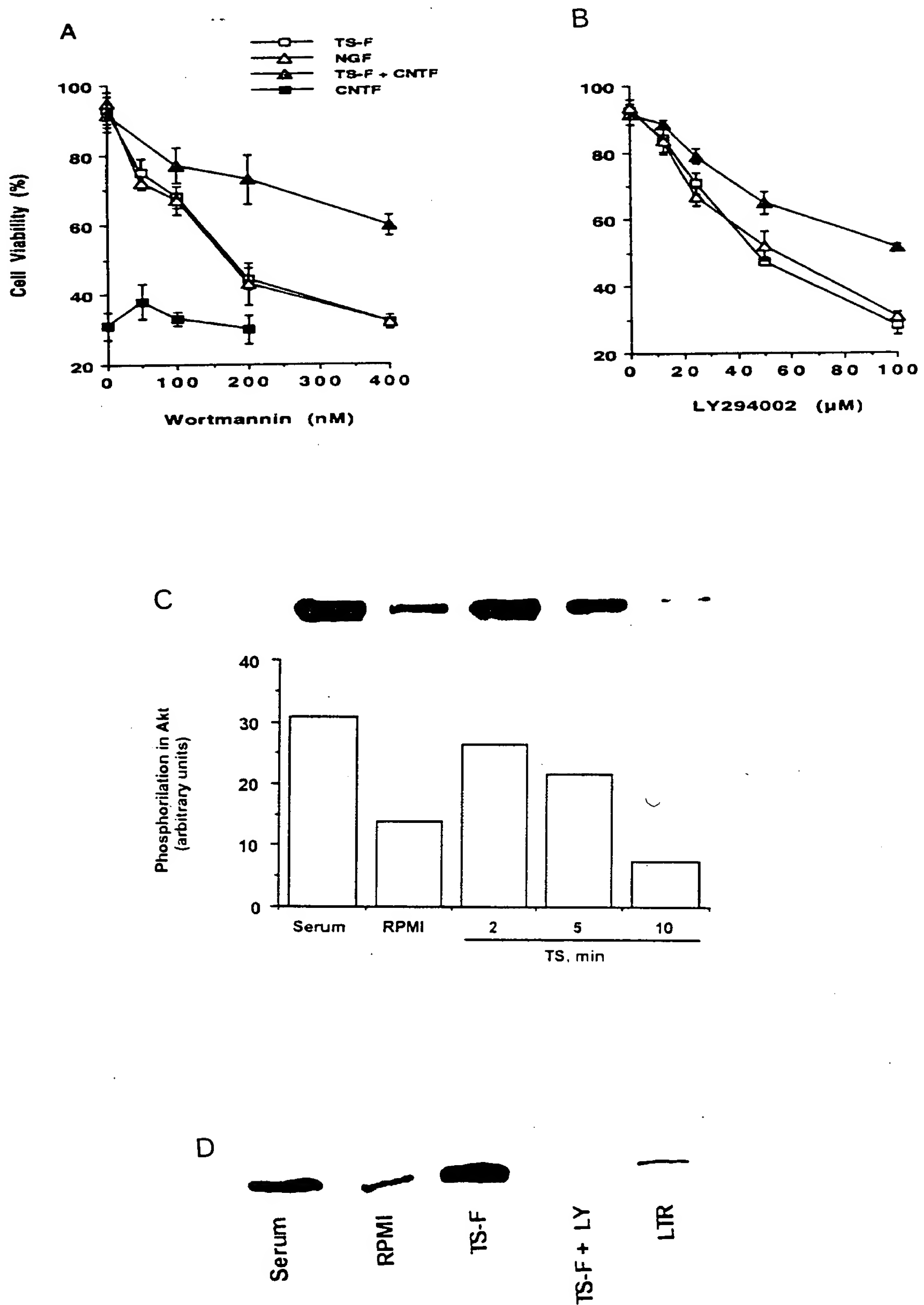


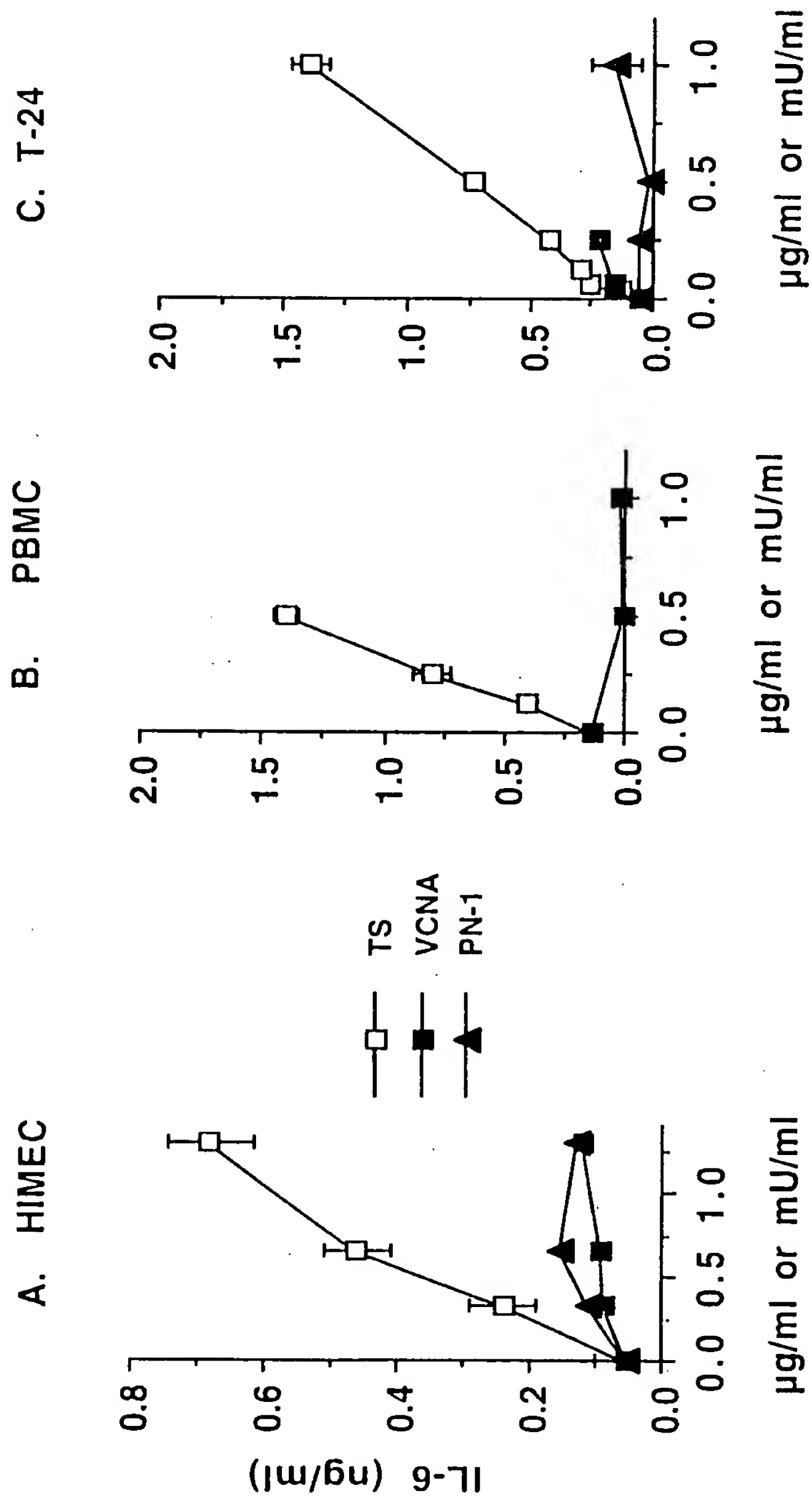
FIGURE 9



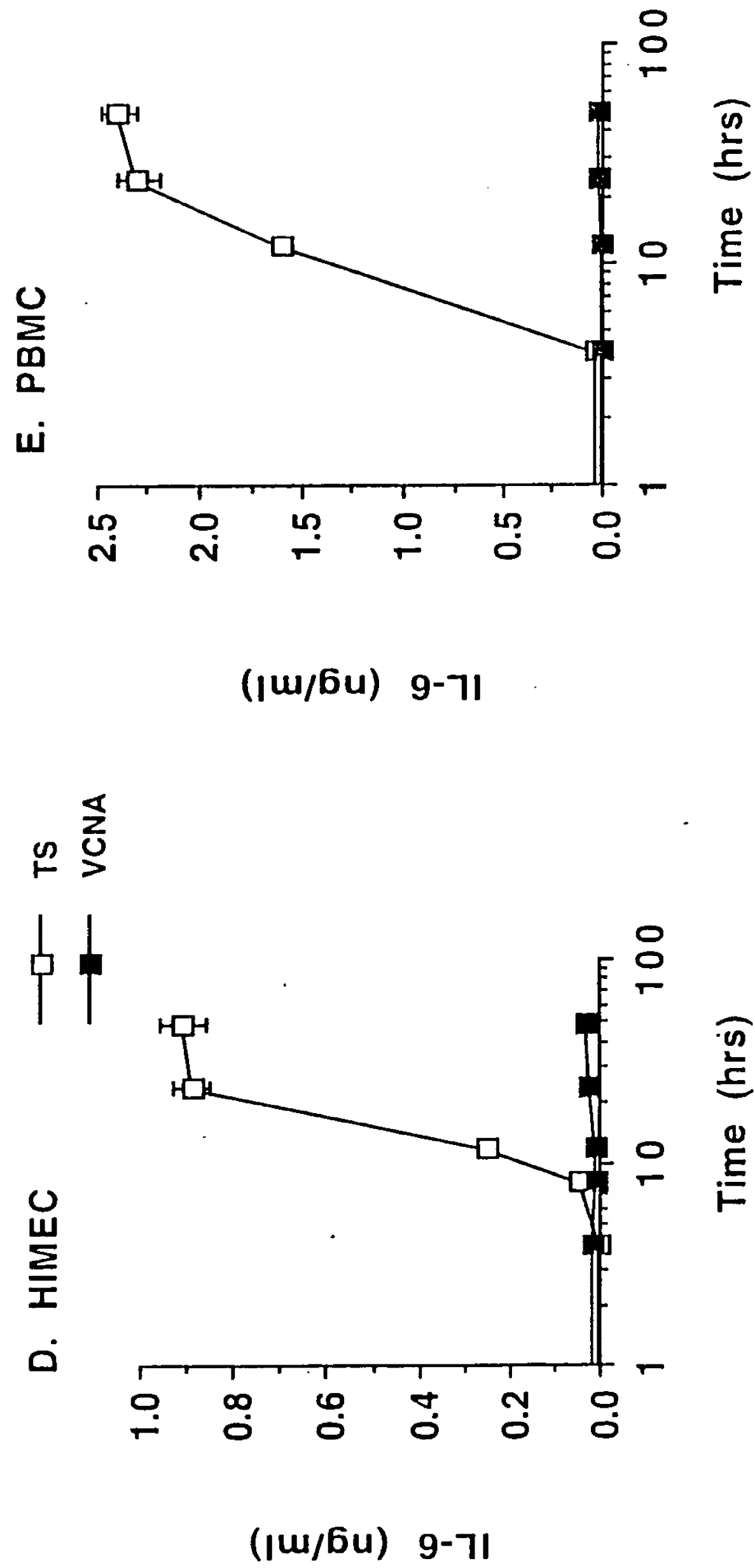
FIGURES 10A - 10G



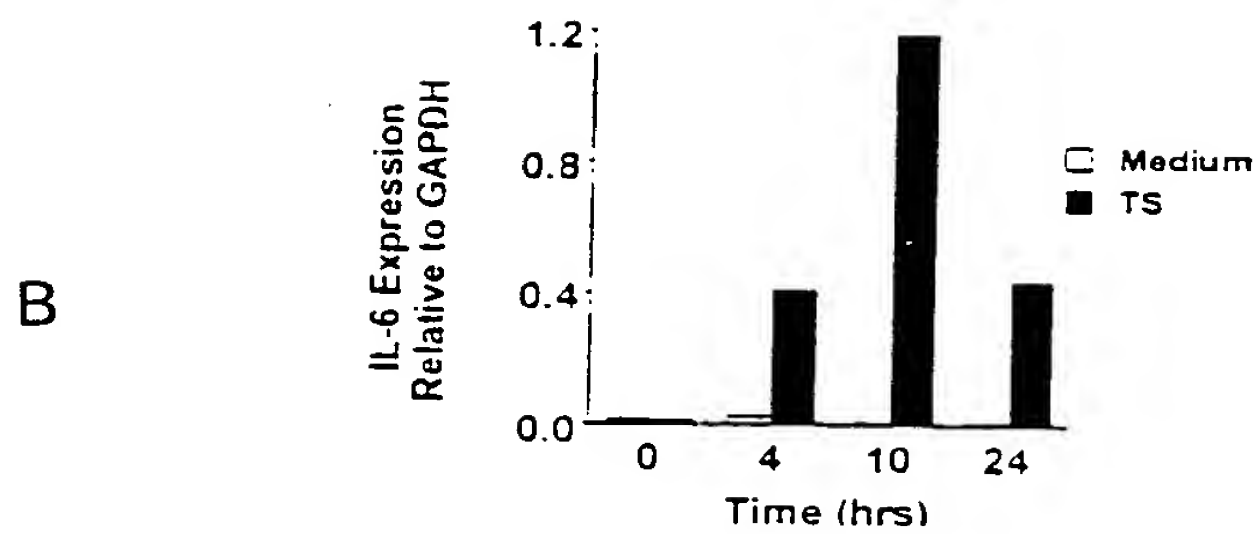
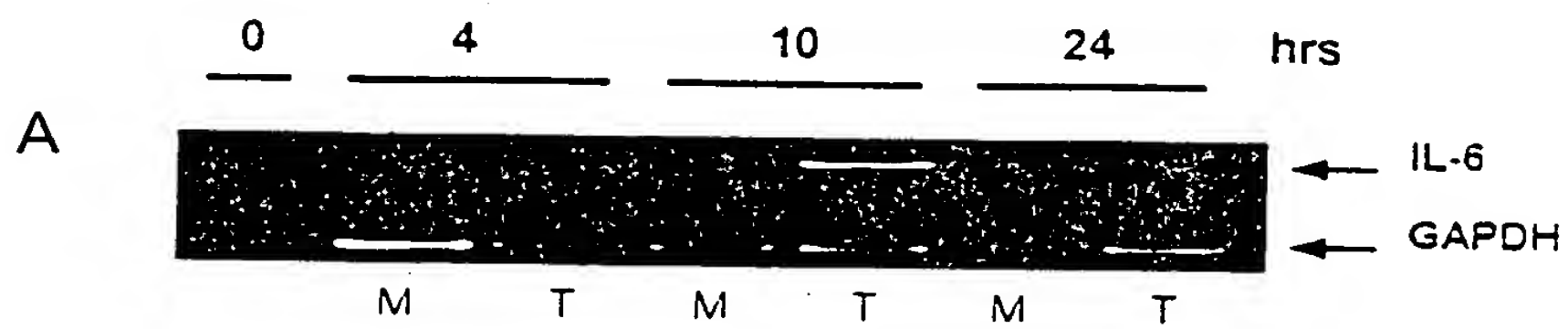
FIGURES 11A - 11D



FIGURES 12A - 12C



FIGURES 12D - 12E



FIGURES 13A - 13B

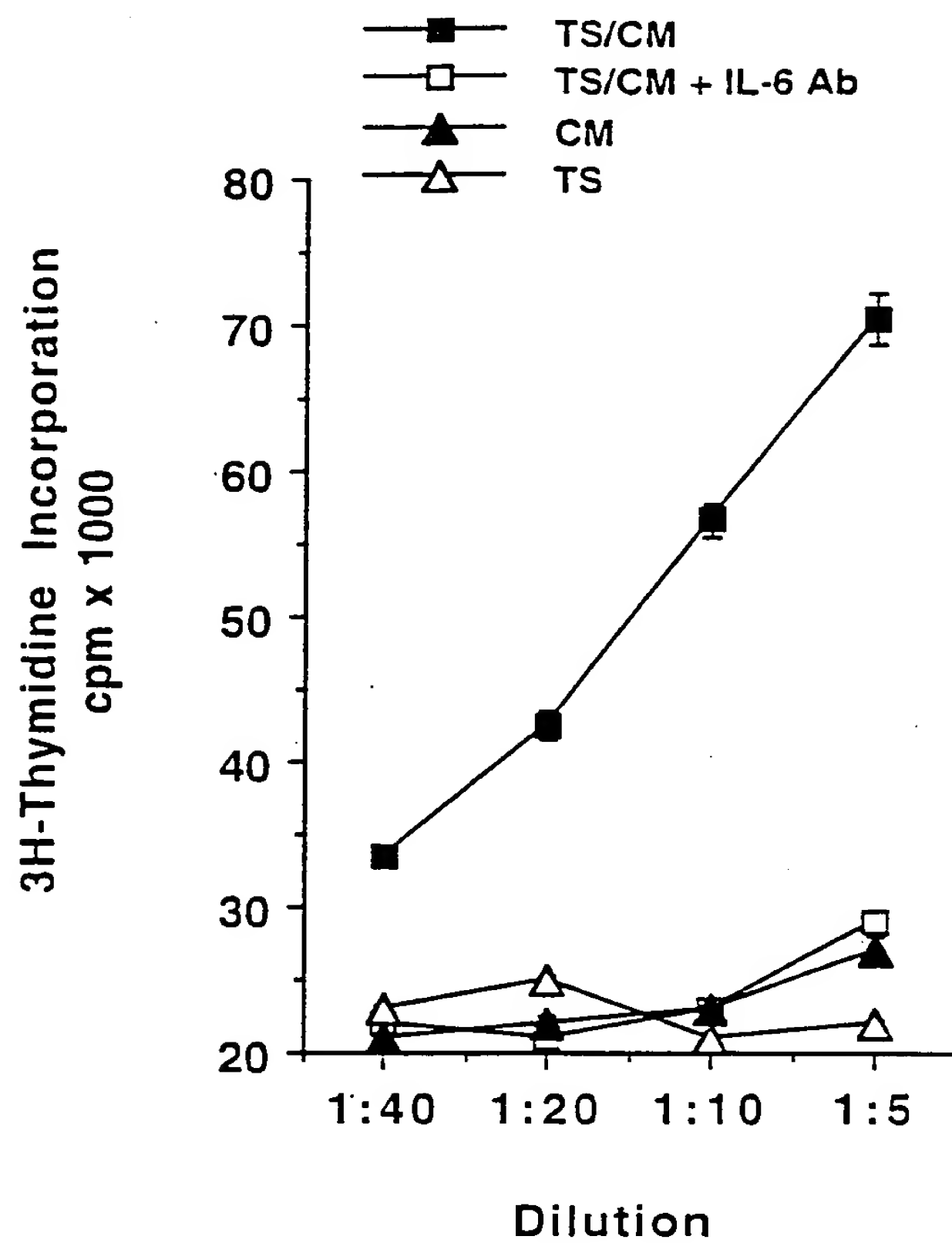
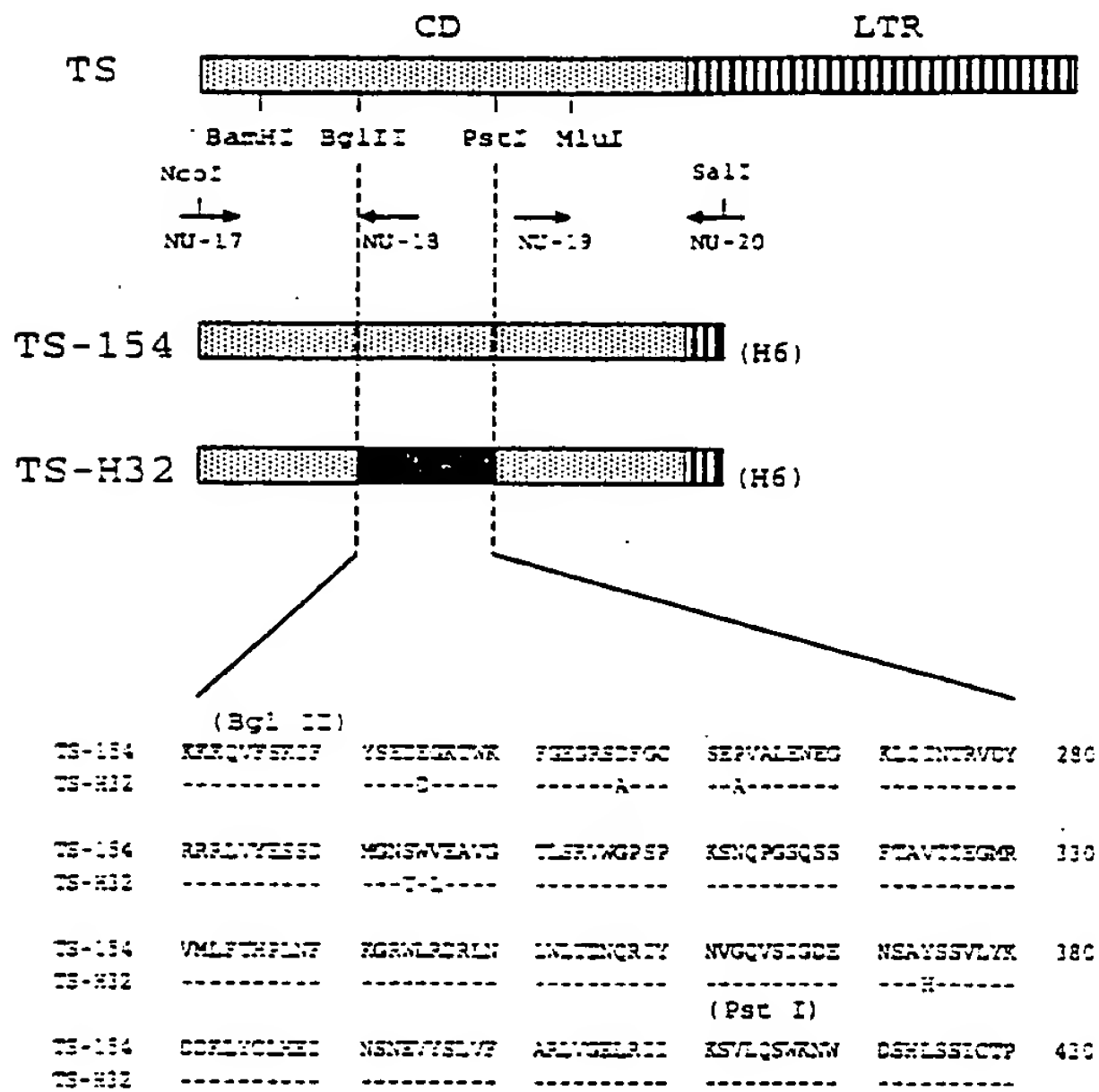
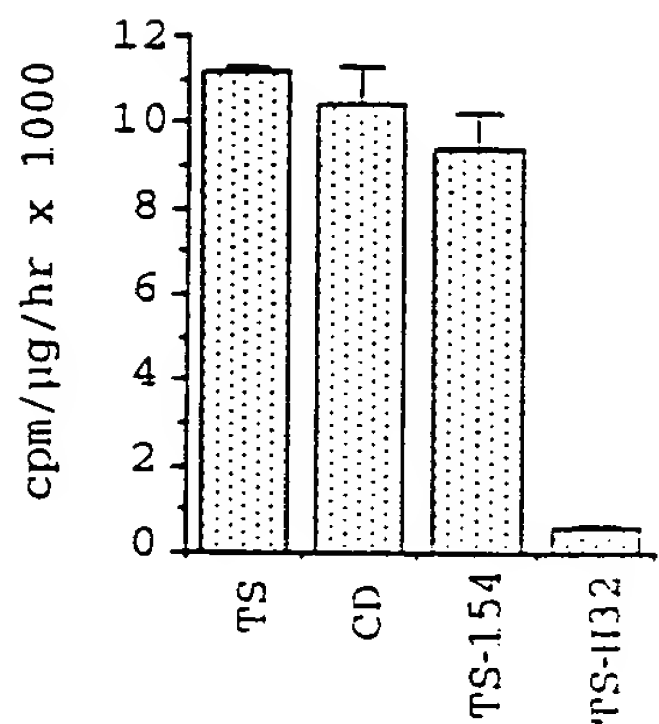


FIGURE 14

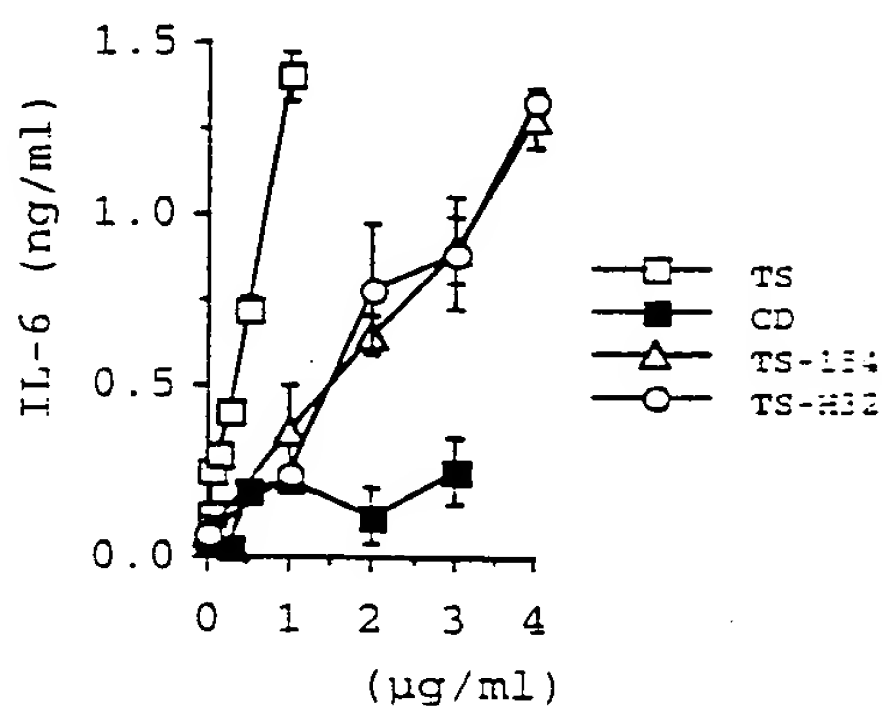
A Schematic diagram



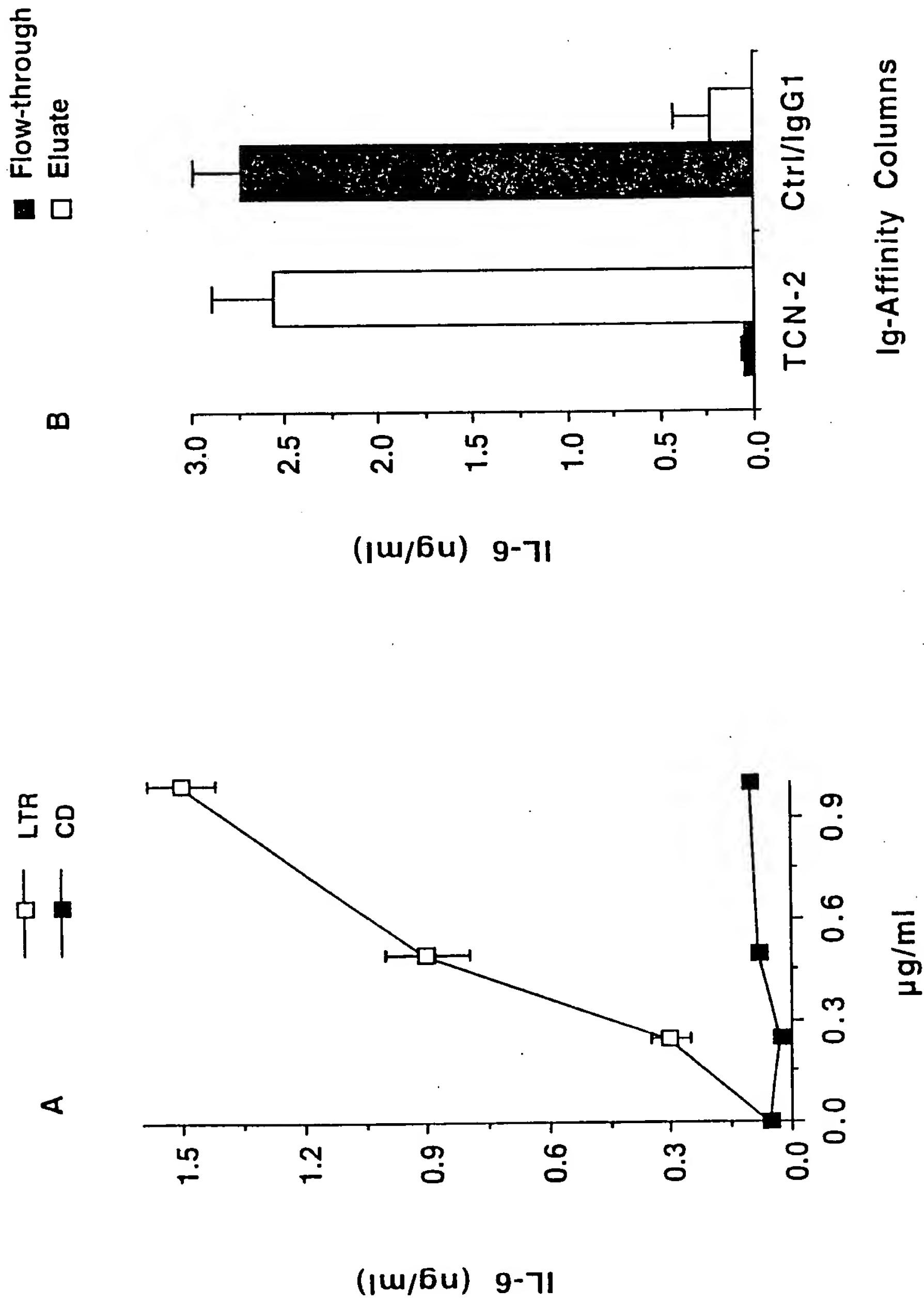
B Catalytic Activity



C IL-6 secretion



FIGURES 15A - 15C



FIGURES 16A - 16B

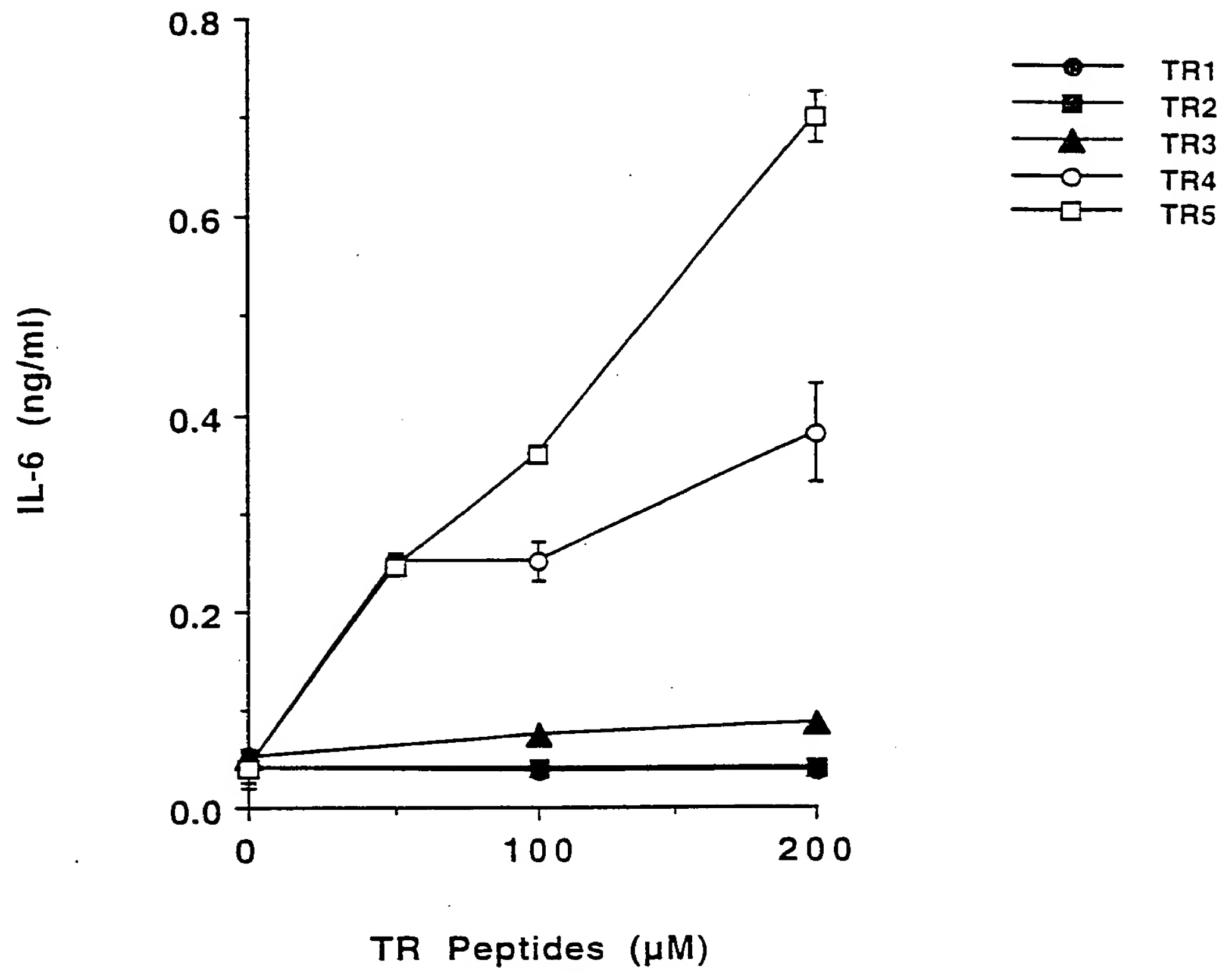
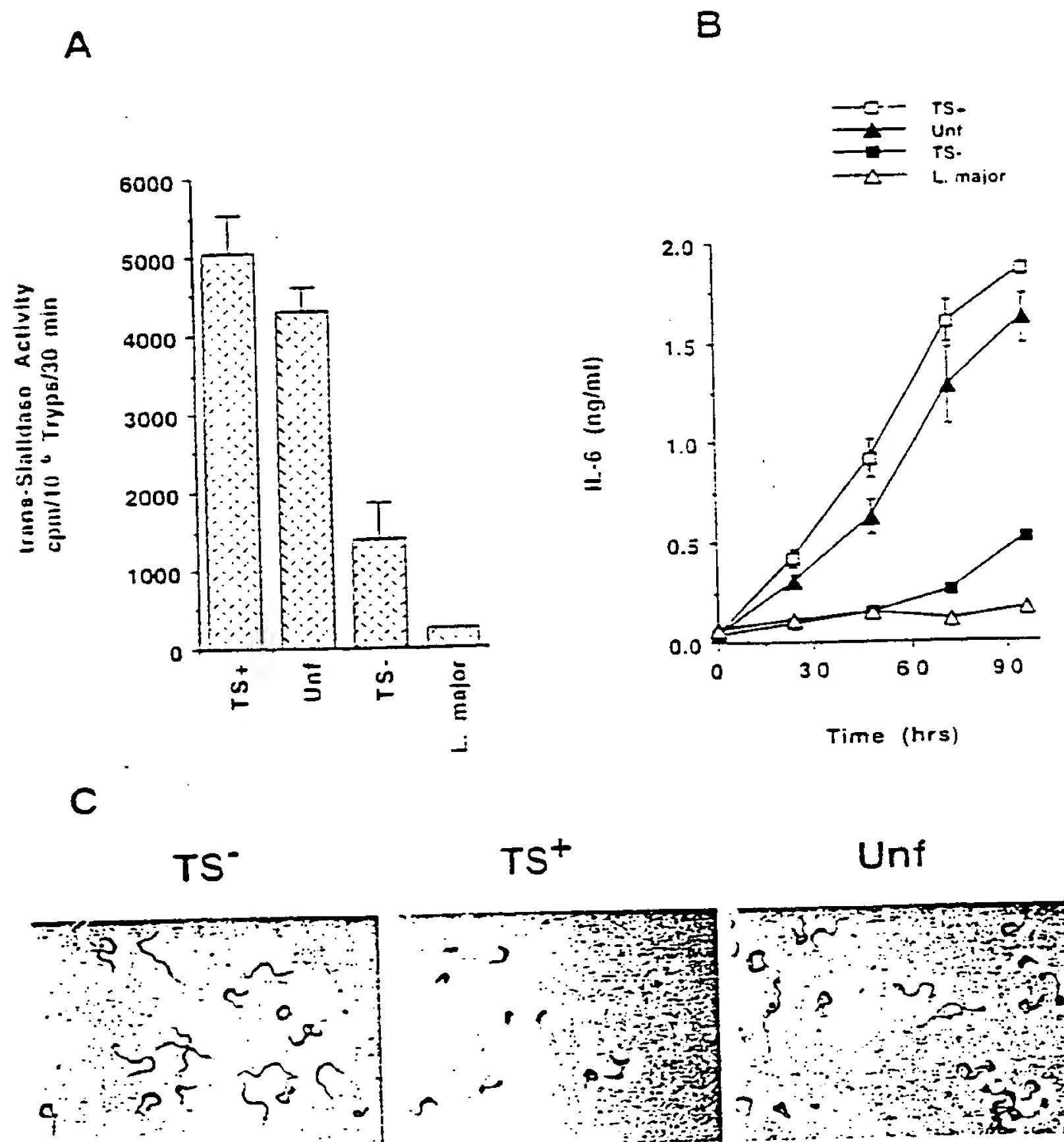


FIGURE 17



FIGURES 18A - 18C

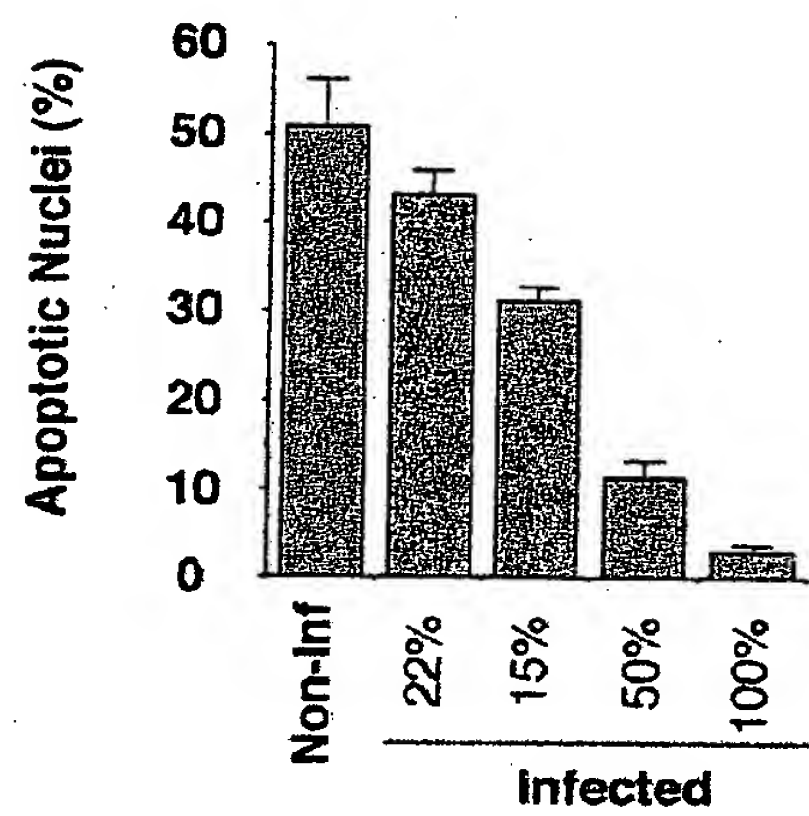
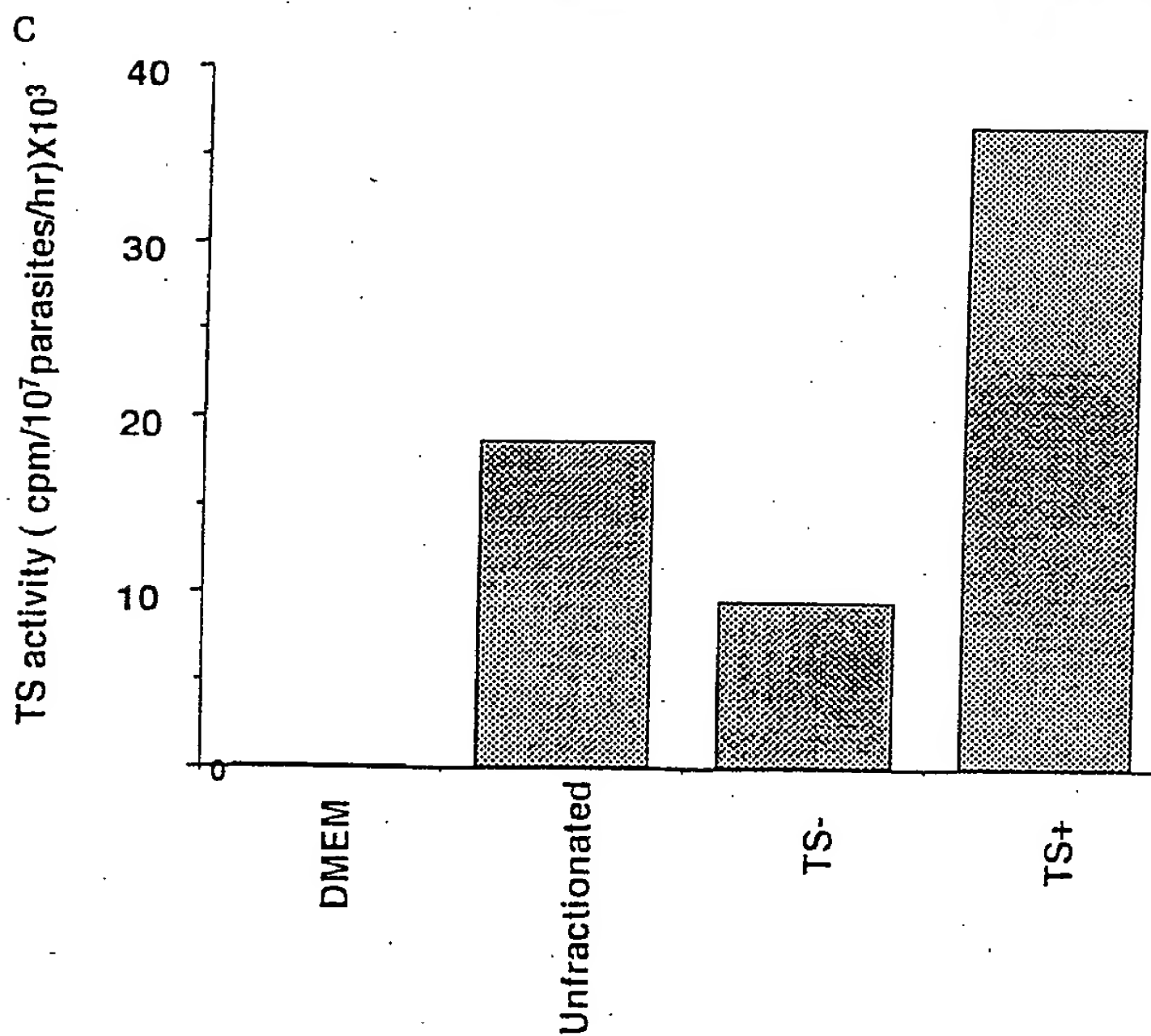
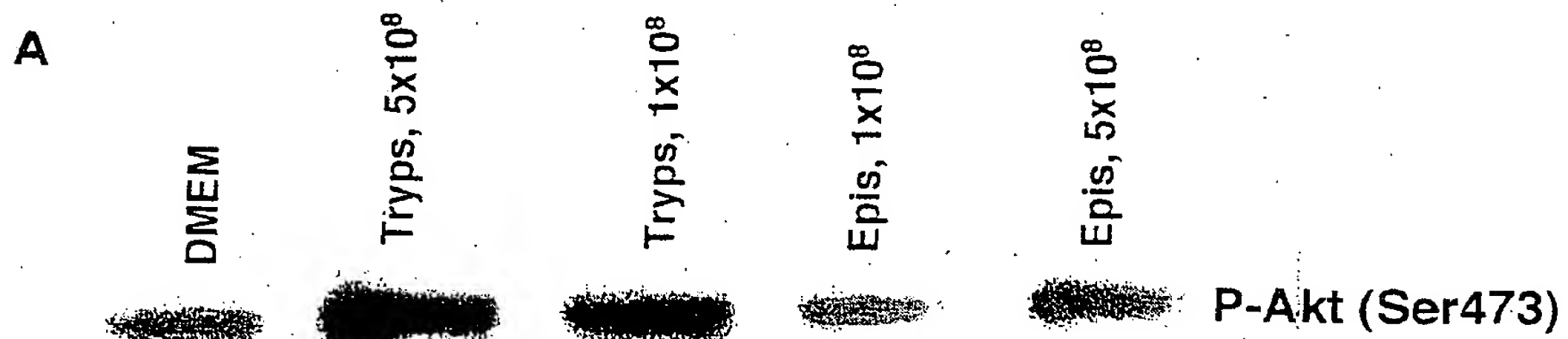
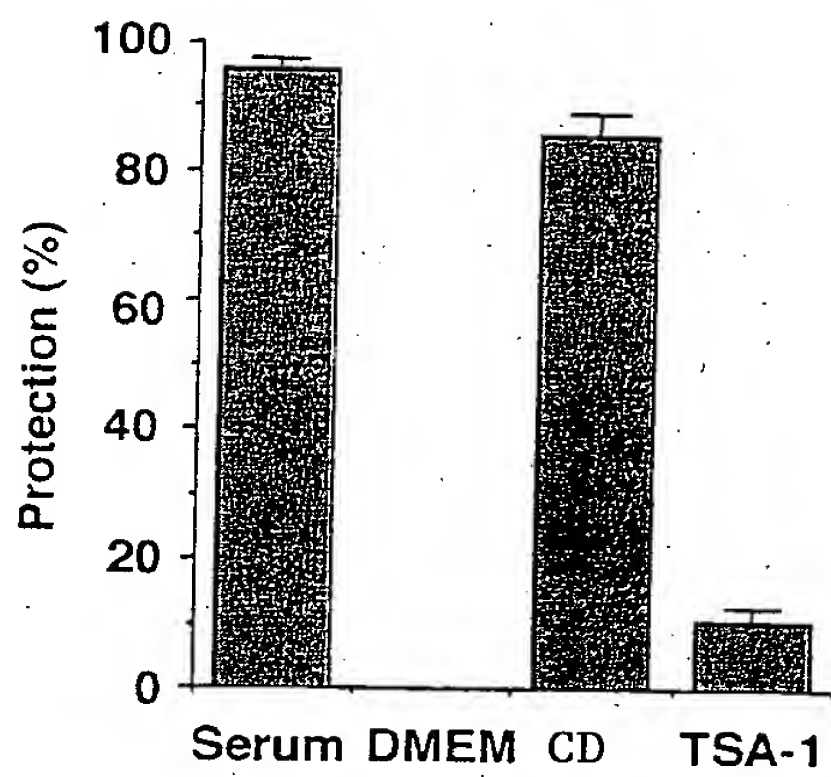


Figure 19

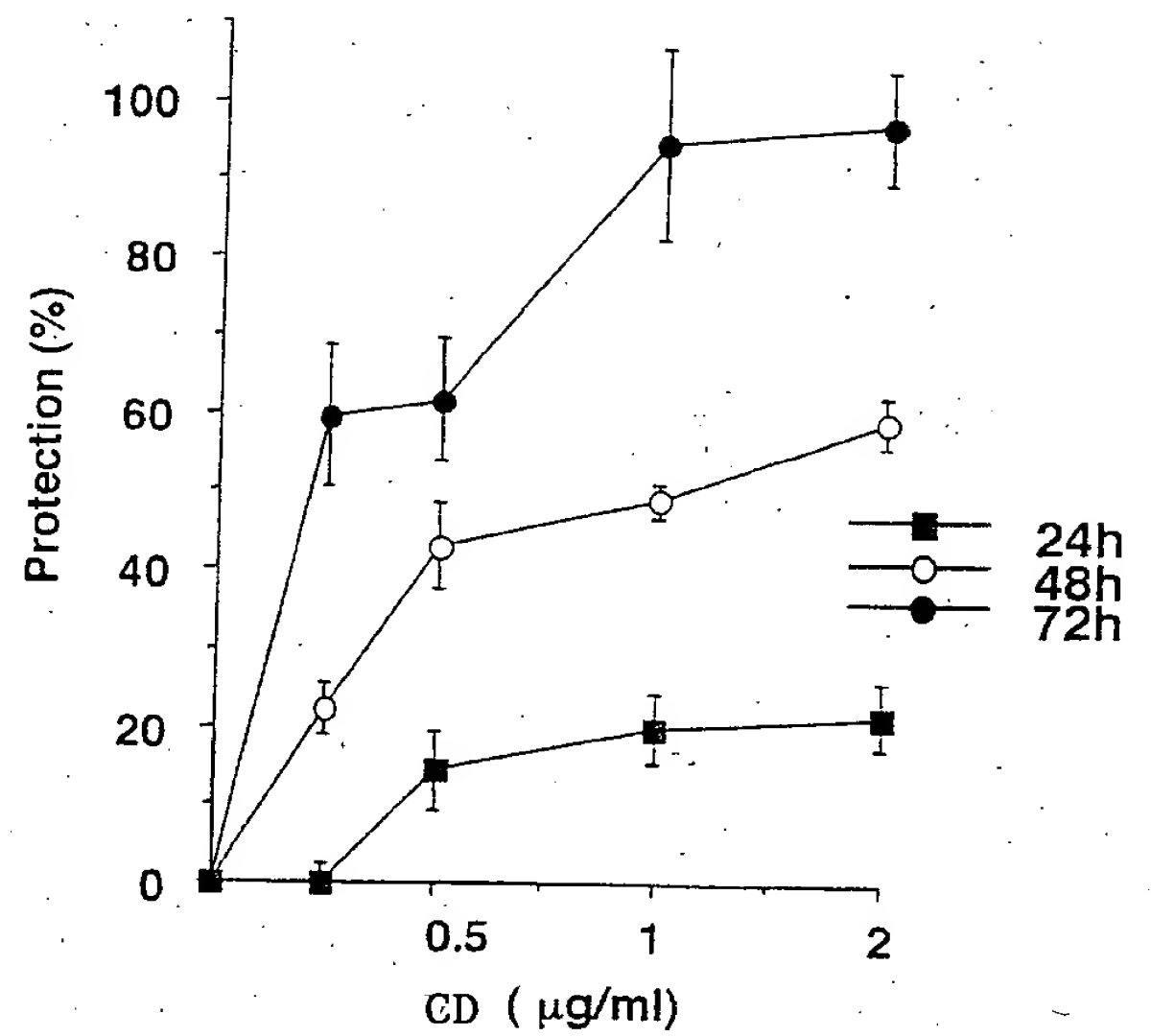


Figures 20A-20C

A

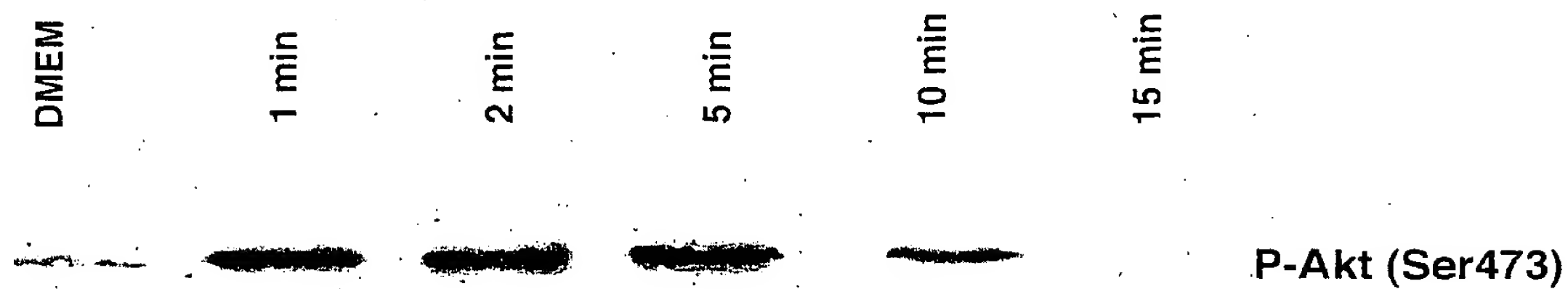


B

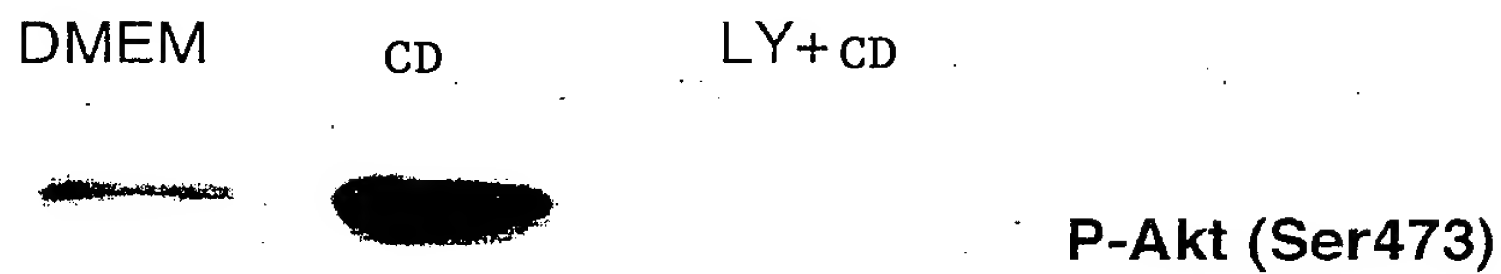


Figures 21A and 21B

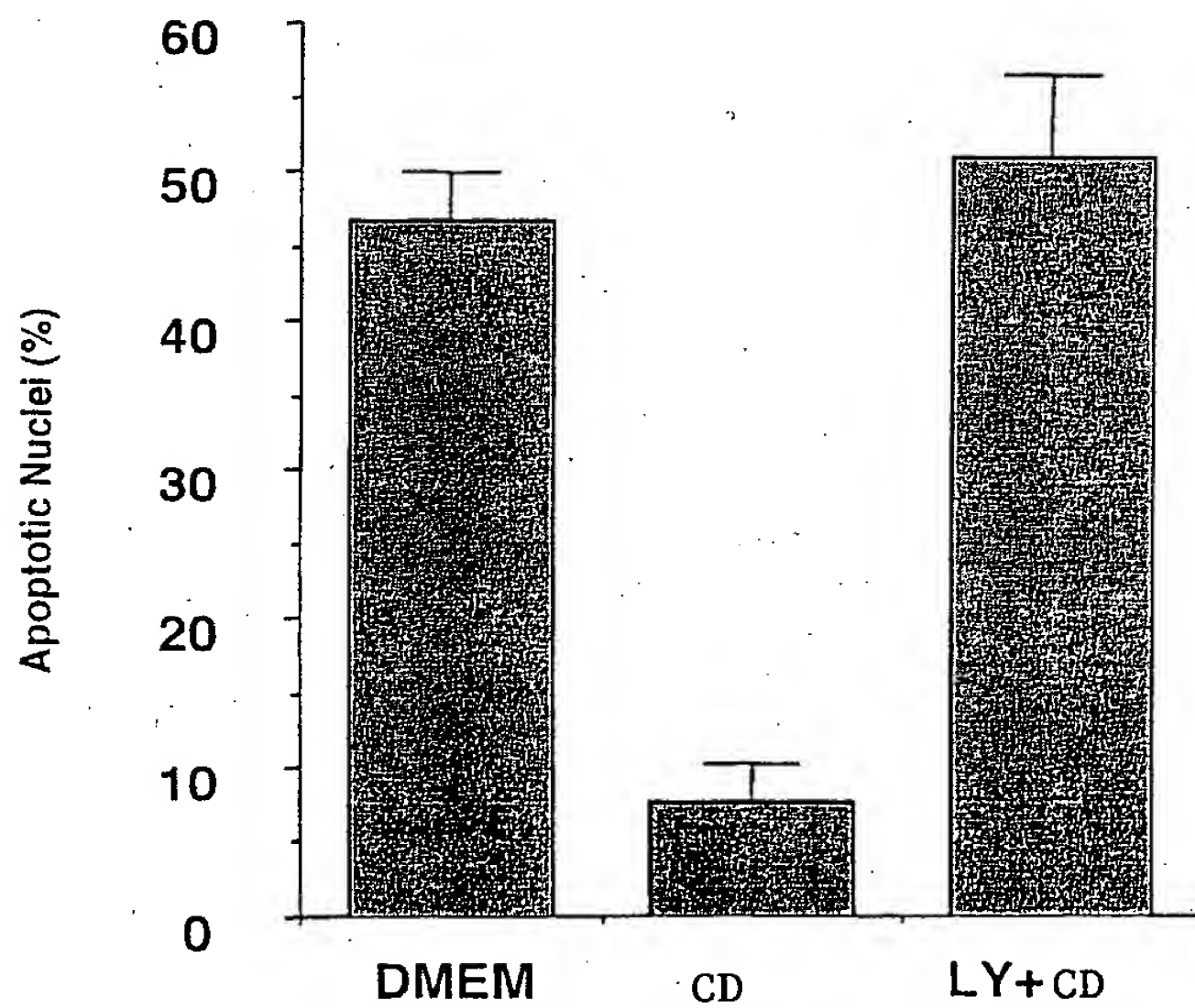
A



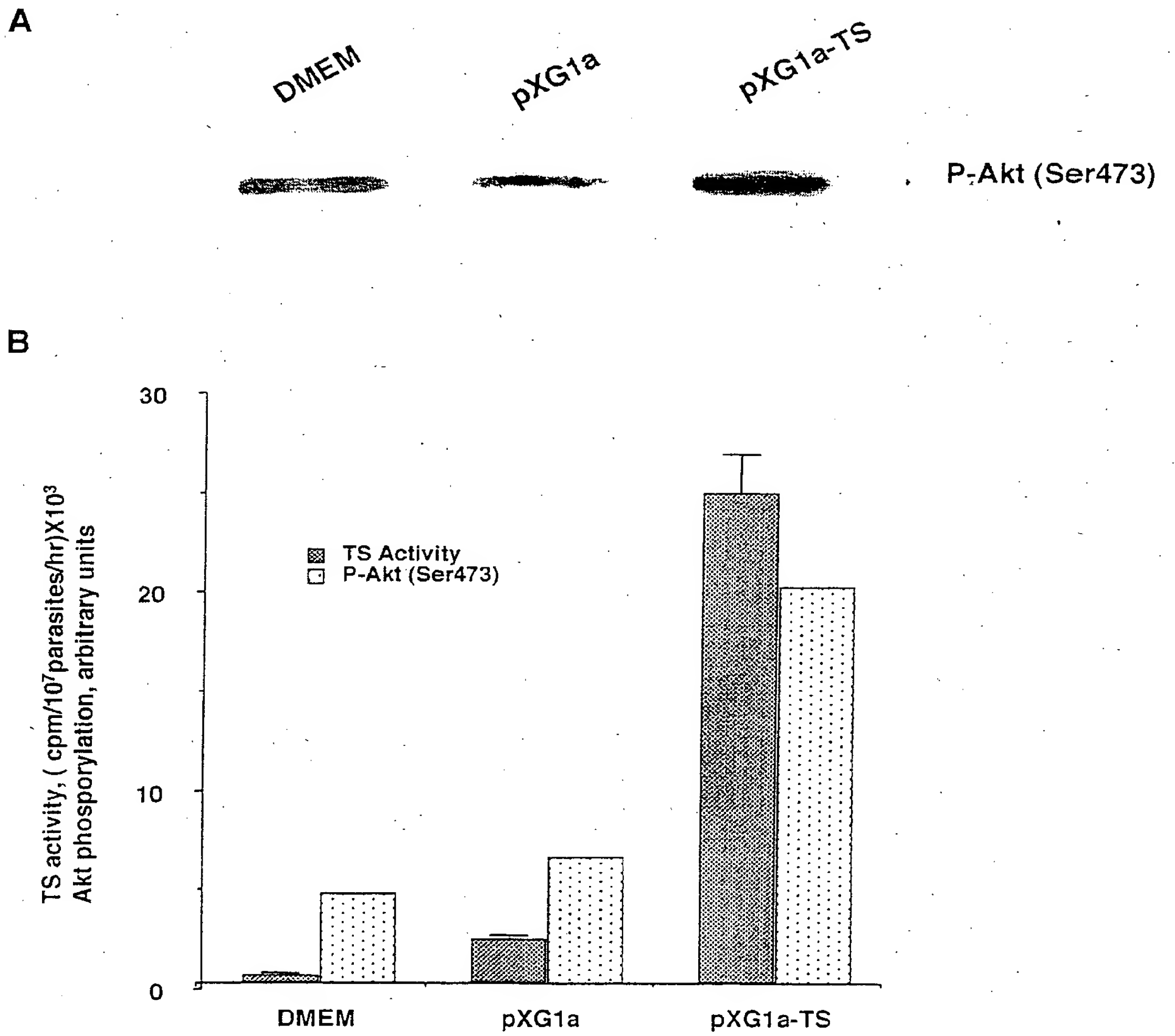
B



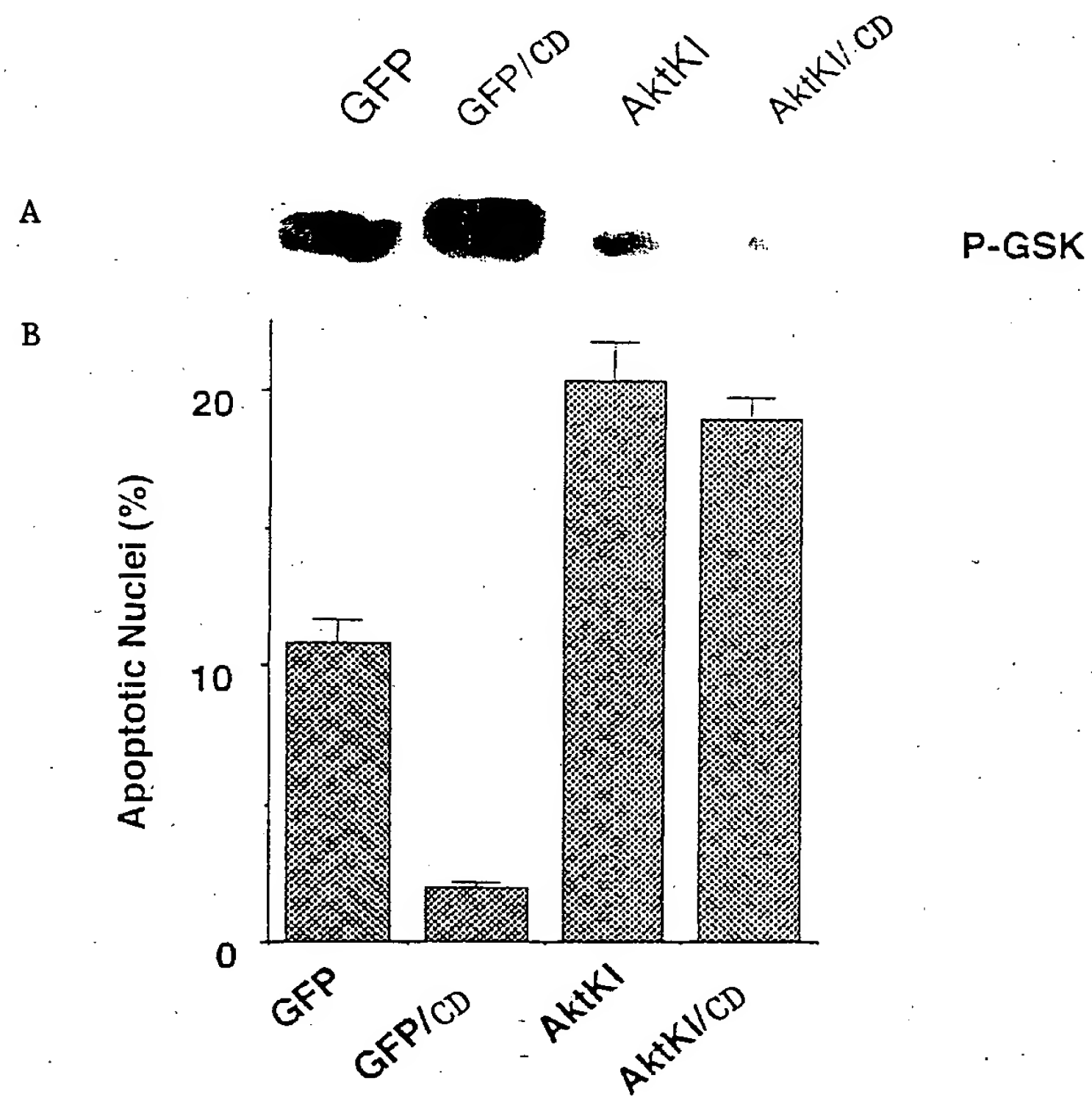
C



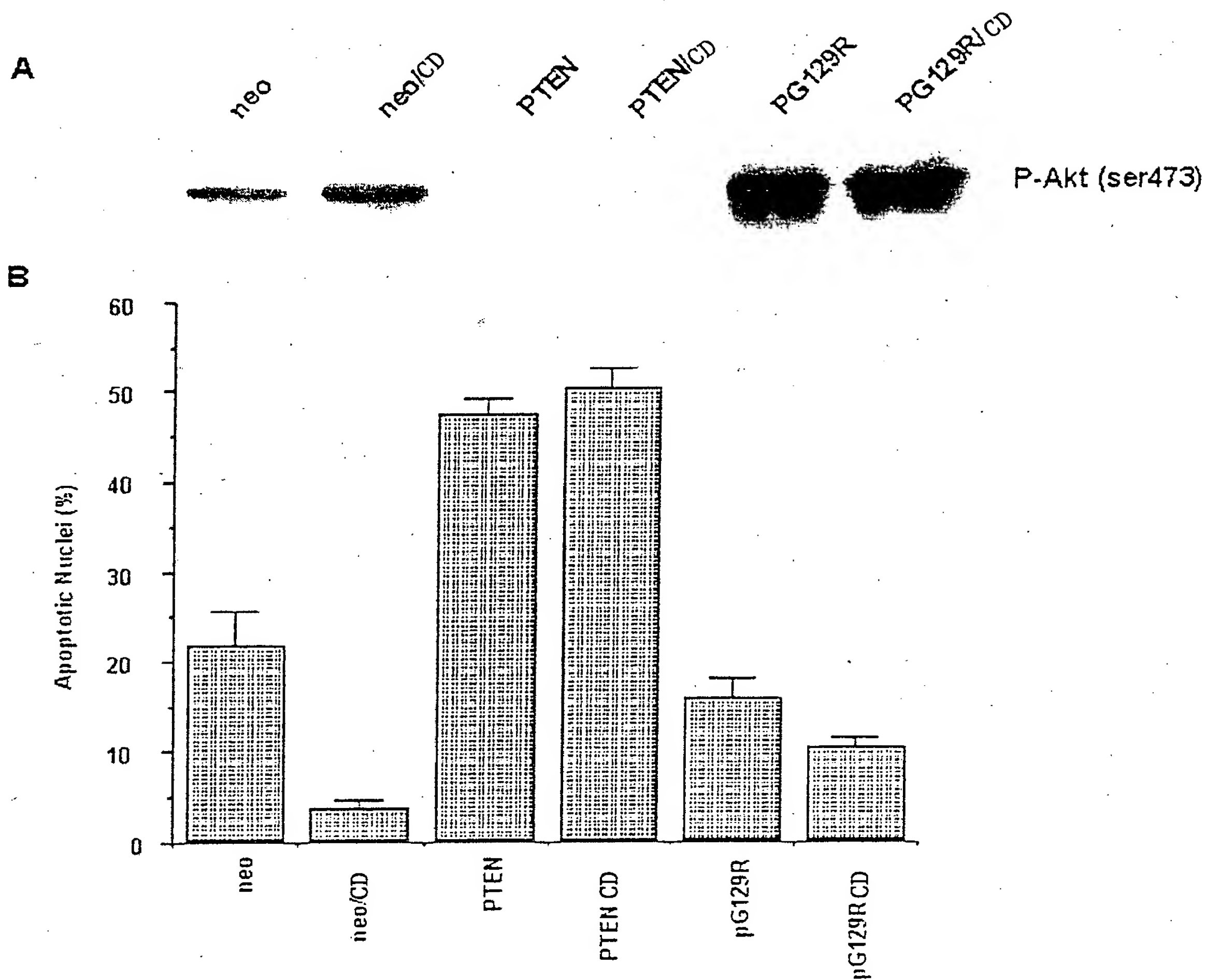
Figures 22A-22C



Figures 23A and 23B



Figures 24A and 24B



Figures 25A and 25B

1	AAAGACCGTT	GGAAGAAGAA	AGAAGGTTCC	GGAGCGTGGC	CACCACCAAC	GATGAACTGC
61	CACAATTGCG	TGCTGTCCGC	GGGCGGTACC	CGGCGCTTTG	AGCCCACGGC	GACTTGTGTG
121	TTCCCCCTTC	TCTTCCCCT	TTCTCCGCGG	CAATCCCCCT	GCAAAGAGAC	GATCTTGACA
181	CCATTGTTTT	AGGCATAATA	GAAGTTCTAC	AAACAACGCC	CGAAGGACAC	ACAGGCAGGC
241	ACCGACTACG	ATGGGGGAAA	CAGTCGTTGT	GGCCAGTAGG	ATGTTCTGGC	TAATGTTTTT
301	CGTGCCGCTT	CTTCTTGCGA	TCTGCCCCAG	CGAGCCCGCG	TACGCCCTGG	CACCCGGATC
361	GAGCCGAGTT	GAGGGTTTAA	GCGTAAGAAT	TCGACGGTGC	CGTTTGAAGA	CAAGGCCGGC
421	AAAGTCACCG	AGCGGGTTGT	CCACTCGTTC	CGCTTCCCCG	CCCTTGTTAA	TGTGGACGGG
481	GTGATGGTTG	CCATCGCGGA	CGCTCGCTAC	GAAACATCCA	GTGAAAACCTC	CCTCATTGAT
541	ACGGTGCGCA	AGTACAGCGT	GGACGATGGG	GAGACGTGGG	AGACCCAAAT	TGCCATCAAG
601	AACAGCCGTG	TATCGTCTGT	TTCTCGTGTG	GTGGATCCCA	CCGTGATTGT	GAAGGGCAAC
661	AAGCTTTACG	TCCTGGTTGG	AAGCTACTAT	AGTTCGAGAA	GCTACTGGTC	GTCGCATGCT
721	GATGCGAGAG	ACTGGGATAT	TCTGCTTGCC	GTTGGTGAGG	TCACGAAGTC	CACTGCGGGC
781	GGCAAGATAA	CTGCGAGTAT	CAAATGGGGG	AGCCCCGTGT	CACTGAAGAA	GTTTTTTTCCG
841	GCAGAAATGG	AAGGCATGCA	CACAAATCAA	TTTCTTGCGG	GCGCGGGTGT	TGCCATTGTA
901	GCGTCCAACG	GGAATCTTGT	GTACCCTGTG	CAGGTTACGA	ACAAAAGGAA	GCAAGTTTTT
961	TCCAAGATCT	TCTACTCGGA	AGATGATGGC	AAGACGTGGA	AGTTTGGGAA	GGGTAGGAGC
1021	GATTTTGCT	GCTCTGAACC	TGTGGCCCTT	GAGTGGGAGG	GGAAGCTCAT	CATAAACACC
1081	CGAGTTGACT	GGAAACGCCG	TCTGGTGTAC	GAGTCCAGTG	ACATGGAGAA	ACCGTGGGTG
1141	GAGGCTGTCT	GAACCGTCTC	GCGTGTGTGG	GGCCCCCTCAC	CAAAATCGAA	CCAGCCCCGGC
1201	AGTCAGACGA	GCTTCACTGC	CGTGACCATC	GAAGGAATGC	GTGTGATGCT	CTTCACACAC
1261	CCGCTGAATT	TTAAGGGAAG	GTGCGTGCGC	GACCGACTGA	ACCTCTGGCT	GACGGATAAC
1321	CAGCGCATTT	ATAACGTTGG	GCAAGTATCC	ATTGGTGATG	AAAATTCCGC	CTACAGCTCC
1381	GTCCTGTACA	AGGATGATAA	GCTGTACTGT	TTGCATGAGA	TCAACACGGA	CGAGGTGTAC
1441	AGCCTTGTTT	TTGCACGCCT	GGTTGGCGAG	CTACGGATCA	TTAAATCAGT	GCTGCGGTCC
1501	TGGAAGAATT	GGACAGCCAC	CTGTCCAGCA	TTTGACCCCC	TGCTGATCCA	GCCGCTTCGT
1561	CGTCAGAGAG	TGGTTGTGGT	CCCGCTGTCA	CCACGGTTGG	TCTTGTTGGC	TTTTTGTCTG
1621	CAACGCCTCC	CAAAACGTAT	GGGAGGATCG	TACCGCTGCG	TCAACGCAAG	CACGGCAAAT
1681	GCGGAGAGGG	TTGGAACGG	TTTGAAGTTT	GCGGGGGTTG	GCGGAGGAGC	GCTTTGGCCG
1741	GTGAGCCAGC	AGGGGCAGAA	TCAGCGGTAT	CGTTTTGCAA	ACCACGCGTT	CACGCTGGTG
1801	GCGTCGGTGA	CGATTACGA	GGCTCCGAGG	GCCGCGAGTC	CCTTGCTGGG	TGCGAGCCTG
1861	GACTCTTCTG	GCGGCAAAAA	ACTCCTGGGG	CTCTCGTACG	ACGAGAAGCA	CCAGTGGCAG
1921	CCAATATACG	GATCAACGCC	GGTGACGCCG	ACGGGATCGT	GGGAGACGGG	TAAAAGGTAC
1981	CACTTGGTTC	TTACGATGGC	GAATAAAATT	GGCTCCGTGT	ACATTGATGG	AGAACTTCTG
2041	GAGGGFTCAG	GACAGACCGT	TGTGCCAGAC	GGGAGGACGC	CTGACATCTC	CCACTTCTAC
2101	GTTGGCGGGT	ATAAAAGGAG	TGATATGCCA	ACCATAAGCC	ACGTGACGGT	GAATAATGTT
2161	CTTCTTTACA	ACCGACGACA	GCTGAATACC	GAGGAGATCA	GGACCTTGTT	CTTGAGCCAG
2221	GACCTTATTG	GCACGGAAGC	ACACATGGAC	AGCAGCAGCG	ACAGCAGTGC	CCACAGTACG
2281	CCCTCAACTC	CCGCTGACAG	CAGTGCCAC	AGTACGCCCT	CAACTCCCGT	TGACAGCAGT
2341	GCCCACAGTA	CGCCCTCGAC	TCCCGCTGAC	AGCAGTGCCC	ACGGTACGCC	CTCAACTCCC
2401	GTTGACAGCA	GTGCCCACGG	TACGCCCTCA	ACTCCCGCTG	ACAGCAGTGC	CCACGGTACG
2461	CCCTCAACTC	CCGTTGACAG	CAGTGCCAC	AGTACGCCCT	CAACTCCCGT	TGACAGCAGT
2521	GCCCACAGTA	CGCCCTCAAC	TCCCGTTGAC	AGCAGTGCCC	ACGGTGCGCC	CTCAACTCCC
2581	GCTGACAGCA	GTGCCCACGG	TACGCCCTCG	ACTCCCGTTG	ACAGCAGTGC	CCACGGTACG
2641	CCCTCGACTC	CCGCTGACAG	CAGTGCCAC	AGTACGCCCT	CGACTCCCGC	TGACAGCAGT
2701	GCCCACAGTA	CGCCCTCGAC	TCCCGCTGAC	AGCAGTGCCC	ACAGTACGCC	CTCGACTCCC
2761	GTTGACAGCA	GTGCCCACGG	TACGCCCTCG	ACTCCCGCTG	ACAGCAGTGC	CCACAGTACG
2821	CCCTCGACTC	CCGCTGACAG	CAGTGCCAC	GGTACGCCCT	CAACTCCCGT	TGACAGCAGT
2881	GCCCACAGTA	CGCCCTCGAC	TCCCGTTGAC	AGCAGTGCCC	ACGGTACGCC	CTCAACTCCC
2941	GTTGACAGCA	GTGCCCACAG	TACGCCCTCG	ACTCCCGTTG	ACAGCAGTGC	CCACGGTACG
3001	CCCTCAACTC	CCGTTGACAG	CAGTGCCAC	AGTACGCCCT	CGACTCCCGC	TGACAGCAGT
3061	GCCCACAGTA	CGCCCTCAAC	TCCCGCTGAC	AGCAGTGCCC	ACGGTACGCC	CTCAACTCCC
3121	GTTGACAGCA	GTGCCCACAG	TACGCCCTCG	ACTCCCGCTG	ACAGCAGTGC	CCACAGTACG

Figure 26A

3181 CCCTCAACTC CCGTTGACAG CAGTGCCCAC AGTACGCCCT CAACTCCCGC TGACAGCAGT
3241 GCCCACGGTA CGCCCTCAAC TCCCGTTGAC AGCAGTGCCC ACGGTACGCC CTCGACTCCC
3301 GCTGACAGCA GTGCCCACAG TACGCCCTCG ACTCCCGCTG ACAGCAGTGC CCACAGTACG
3361 CCCTCGACTC CCGCTGACAG CAGTGCCCAC AGTACGCCCT CAACTCCCGT TGACAGCAGT
3421 GCCCACAGTA CGCCCTCAAC TCCCGCTGAC AGCAGTGCCC ACAGTACGCC CTCAACTCCC
3481 GCTGACAGCA GTGCCCACAG TACGCCCTCG ACTCCCGCTG ACAGCAGTGC CCACAGTACG
3541 CCCTCAACTC CCGTTGACAG CAGTGCCCAC AGTACGCCCT CAACTCCCGC TGACAGCAGT
3601 GCCCACGGTA CGCCCTCGAC TCCCGCTGAC AGCAGTGCCC ACAGTACGCC CTCGACTCCC
3661 GTTGACAGCA GTGCCCACAG TACGCCCTCG ACTCCCGCTG ACAGCAGTGC CCACGGTACG
3721 CCCTCGACTC CCGCTGACAG CAGTGCCCAC AGTACGCCCT CGACTCCCGC TGACAGCAGT
3781 GCCCACGGTA CGCCCTCGAC TCCCGCTGAC AGCAGTGCCC ACAGTACGCC CTCAACTCCC
3841 GCTGGCAGCA GCGCCAATGG TACGGTTCTG ATTTTGCCCG ATGGCGCTGC ACTTTCGACC
3901 TTTTCGGGCG GAGGGCTTCT TCTGTGTGCG TGTGCTTTGC TGCTGCACGT GTTTTTTATG
3961 GCAGTTTTCT GATGTAGTGA GAGAGTCTCC TAACAAATGT AGATAAATTC ATAATTGTGG
4021 TGTGAACCGT TTGGGTAAAT GTGTGTGTGC GCTCTCATAA GGAAATGATT TCCAGTAATG
4081 TTTTTTTTTT GTTCTCGAAC ATTTTGAATA AATCTGCAGA CAGATGGGGA CGCGTAATTT
4141 GAATTTGTTT TTCAGCGTTC TTTTGTCACT GGCCCTTGT TTAAGTGGAA CCGCGTTGCA
4201 ATGCGGCGAG GGCATTTCTC TGTTTTGATT TCCTTCTTTT TCTCCTTTGT GTTTCTTCAA
4261 TTTGACGGTT TGCACGCTGT GCGGTGGAGC GTTTTCCCTT GTGAAATAAG GGCCAACTGC
4321 TTCACAGTGG CACGAGGGCG CTCAAGAGAT CCGCGGGTCG CCAGTGA CTC ACTTTGTGTG
4381 GCGCAGCTCG AGGAGGTGTC TGGCTGCTGT GGGGGCCTCG ATGGTTGCCA CTTGCGGAGT
4441 TTGCAACGAG CGTGCTTCTC GCGGAGGGAG CAGGCGAAAT ATTTTGT TTTT TTTT TTTT
4501 TTTTTTTTGT TTTTGT TTTT TGTGTGTGTG TGTAAGTTTT GGTTCAGTCT CCCTTGA ACT
4561 GGGGGACGTT GGGCTTAATG GACCAA ACTC TGATTCCCTT AAAACTTCTT TTGTTGGTTT
4621 TCTTTTGT TTTTGT TTTT GCTGCTGATT TGCACGCTTT CTCACTGTCA CCGAAGCGCG
4681 GCGGCGGTGT TTGAGTGCCC CCTCACGCTG CTGCTGTGGA ATTTGCGTTG CTTGCGGACA
4741 TTTCTGTTGG GTCGCATTGC TTTCTACTTC GTTTTTTATT TTTGTGCTTT GGTGGAGGGG
4801 AGTGTGCAGC AGGGGGCGGG CCGAGATGCC TGTGGAGACA GCGACGTTGC GGGGACTCTC
4861 TCTCGGCCTC GTCATTCAAC AATCCATTGC GCAGCAGGTT GCCACGAACA CCAGCACCAA
4921 TATTTGTTTCG TTTTCCCACT ATTACCGGCG CGTCTAGCCG CACGATGCCA TCTGGGTGCC
4981 GAGGAGGCGG TTGAGCAGCG GAAAAGGCTT CCTGCTATGA AGCGACTGCC ATTGAGAGAA
5041 CTTTTAGCTG CGTGGATCTT CCTCAATGCC CAGCCGTTGG CGCGCAGCGG AGGTGCCTGG
5101 GCATTCTAGG AGCAGATGGC GAAAGGTTTC CTGCGCGTCA ACTGGCGTGT CTGTGGAGGT
5161 TEGCTATCCT CAGTCGGGAG ACCGCCTCCT GGCACCACAG AACGGGTAGC GGTAGTGTCT
5221 TGGCGAATAG TACAACGCCA CTTGTTGCTG ACTGGGCAGT AAAGCATGTC AGCGGGTCCG
5281 TGTGCCATAC GGGCGCATTC CATGTTCCGT GTGTTGTCCG GTTGCCATGG TCTGCGTCGC
5341 ATGCTGAGCC GCAGGCTCGT CAACATGCAC TCCACAATGT CCGTAAGAAA ACTCCCGGTG
5401 CAC

Figure 26B

1 mvaiaadarye tssensliddt vakysvddge twetqiaikn srvssvsrvv dptvivkgnk
61 lyvlvgssys srsywsshdg ardwidllav gevtkstagg kitasikwgs pvslkkffpa
121 emegmhntnqf lggagvaiva sngnlvypvq vtlnkrkqvfs kifyseddgk twkfgkgrsd
181 fgcsepvale wegkliintr vdwkrrlvye ssdmekpwve avgtvsrvwg pspksnqpqs
241 qtsftavtie gmrvmfthp lnfkgrcvrd rlnlwltdnq riynvgqvsi gdensayssv
301 lykddklycl heintdevys lvfarlvgel riiksvlrsw knwtatcpaf aplliqplrr
361 qrvvvvplsp rlvllafrq rlpkrmggsy rcvnastana ervrnglkfa gvvggalwpv
421 sqggqnqrry fanhaftlva svtiheapra aspllgasld ssggkklgl sydekhqwp
481 iygstpvtp gswetgkryh lvltmankig svyidgelle gsgqtvvpdg rtpdishfyv
541 ggykrsdmpt ishvtvnnvl lynrrqlnte eirtlflsqd ligteahmds ssdssahstp
601 stpadssahs tpstpvdssa hstpstpads sahgtstpvp dssahgtstp padssahgtp
661 stpvdssahs tpstpvdssa hstpstpads sahgapstpa dssahgtstp pvdssahgtp
721 stpadssahs tpstpads hstpstpads sahststpvp dssahgtstp padssahstp
781 stpadssahg tpstpvdssa hstpstpads sahgtstpvp dssahgtstp pvdssahgtp
841 stpvdssahs tpstpads hstpstpads sahgtstpvp dssahgtstp padssahgtp
901 stpvdssahs tpstpads hgtstpvpads sahgtstpvp dssahgtstp padssahgtp
961 stpadssahs tpstpvdssa hstpstpads sahgtstpvp dssahgtstp padssahgtp
1021 stpvdssahs tpstpads hgtstpvpads sahststpvp dssahgtstp padssahgtp
1081 stpadssahs tpstpads hgtstpvpads sahststpvp dssahgtstp padssahgtp
1141 sggglilcac allhvfma vf gssangtvli lpdgaalstf

Figure 26C